STEREO DOUBLE CASSETTE DECK

KX-W8070S

SERVICE MANUAL

KENWOOD

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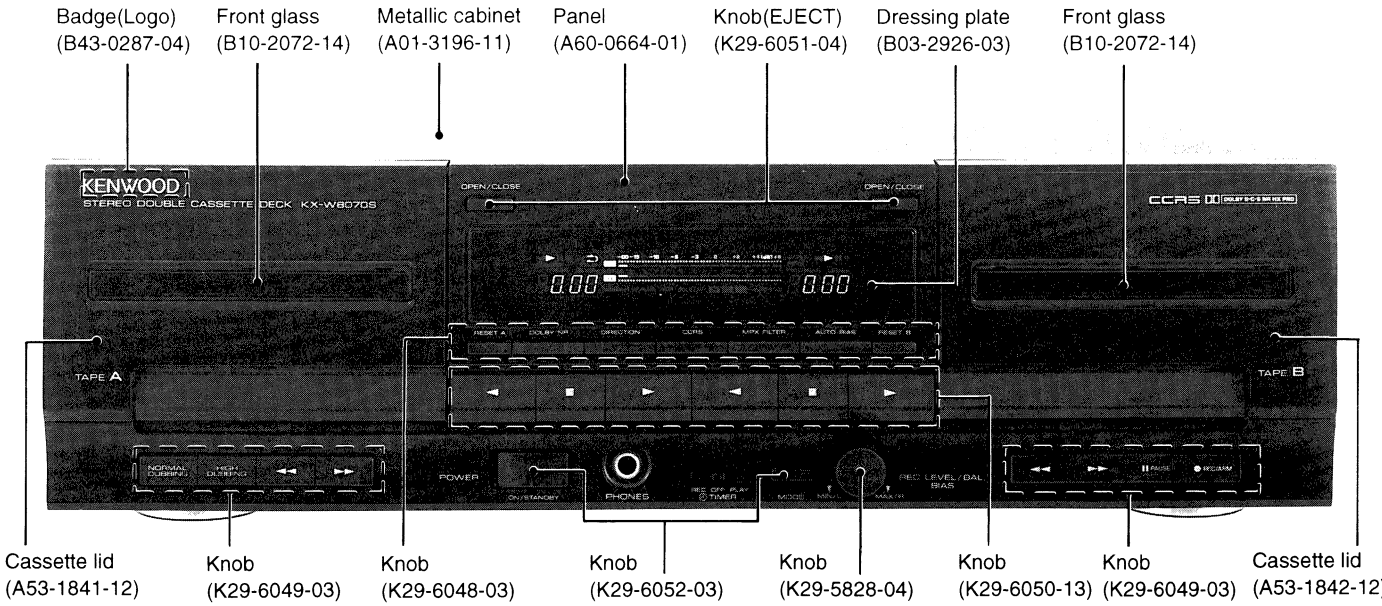
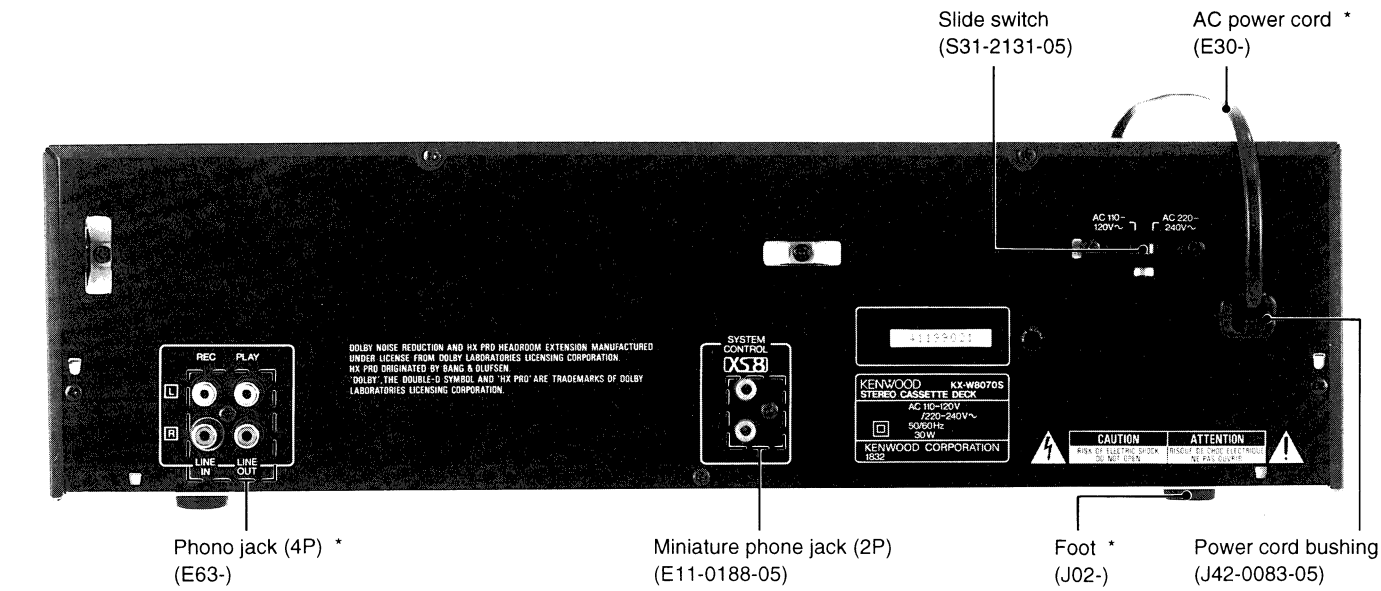
B51-5022-00 (S) 3953





* Refer to parts list on page 35.

KX-W8070S

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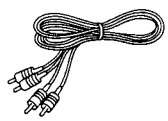
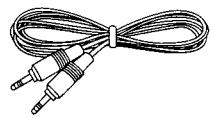
ACCESSORIES

Audio cord 2
(E30-0505-05)

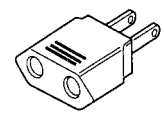


System control cord 1
(E30-2733-05)



Except for U.S.A., Mexico, Canada, U.K., Europe and Australia

AC plug adaptor 1
(E03-0115-05)



INSTRUCTION MANUAL

	Parts No.	Destination
ENGLISH	B60-1903-00	K, P, Y, M, X, T
ENGLISH	B60-1903-00	E, R
FRENCH	B60-1904-00	P, E
CHINESE	B60-1905-00	M
SPANISH	B60-1906-00	M, E, R
DUT, ITA	B60-1907-00	E
GERMANY	B60-2128-00	E, G
TAIWANESE	B60-2130-00	M

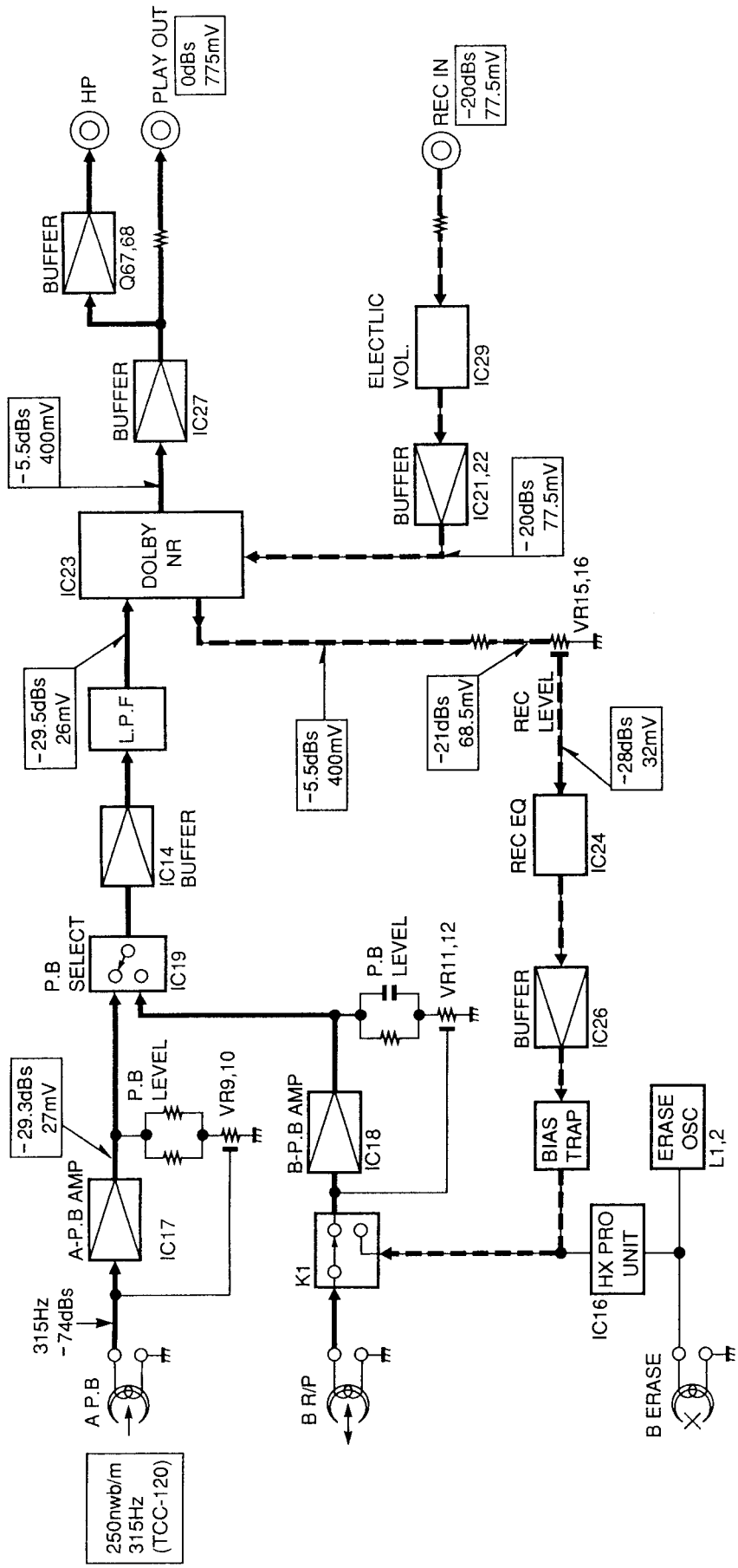
Beware of condensation

When water vapor comes into contact with the surface of cold material, water drops are produced.
If condensation occurs, correct operation may not be possible, or the unit may not function correctly.
This is not a malfunction, however, the unit should be dried. (To do this, turn the POWER switch ON and leave the unit as it is for several hours.)

Be especially careful in the following conditions:

- When the unit is brought from a cold place to a warm place, and there is a large temperature difference.
- When a heater starts operating.
- When the unit is brought from an air-conditioned place to a place of high temperature with high humidity.
- When there is a large difference between the internal temperature of the unit and the ambient temperature, or in conditions where condensation occurs easily.

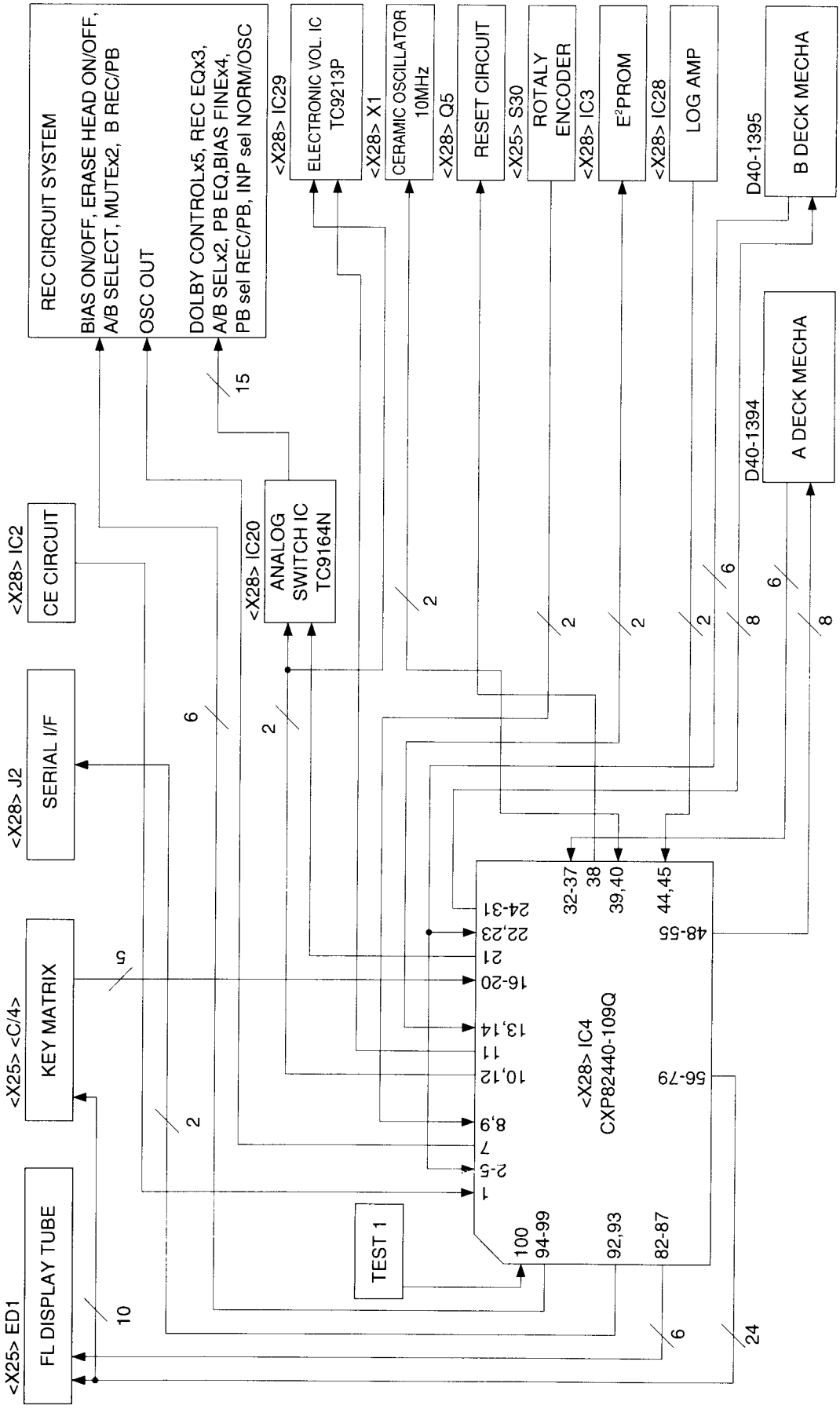
BLOCK DIAGRAM



KX-W8070S

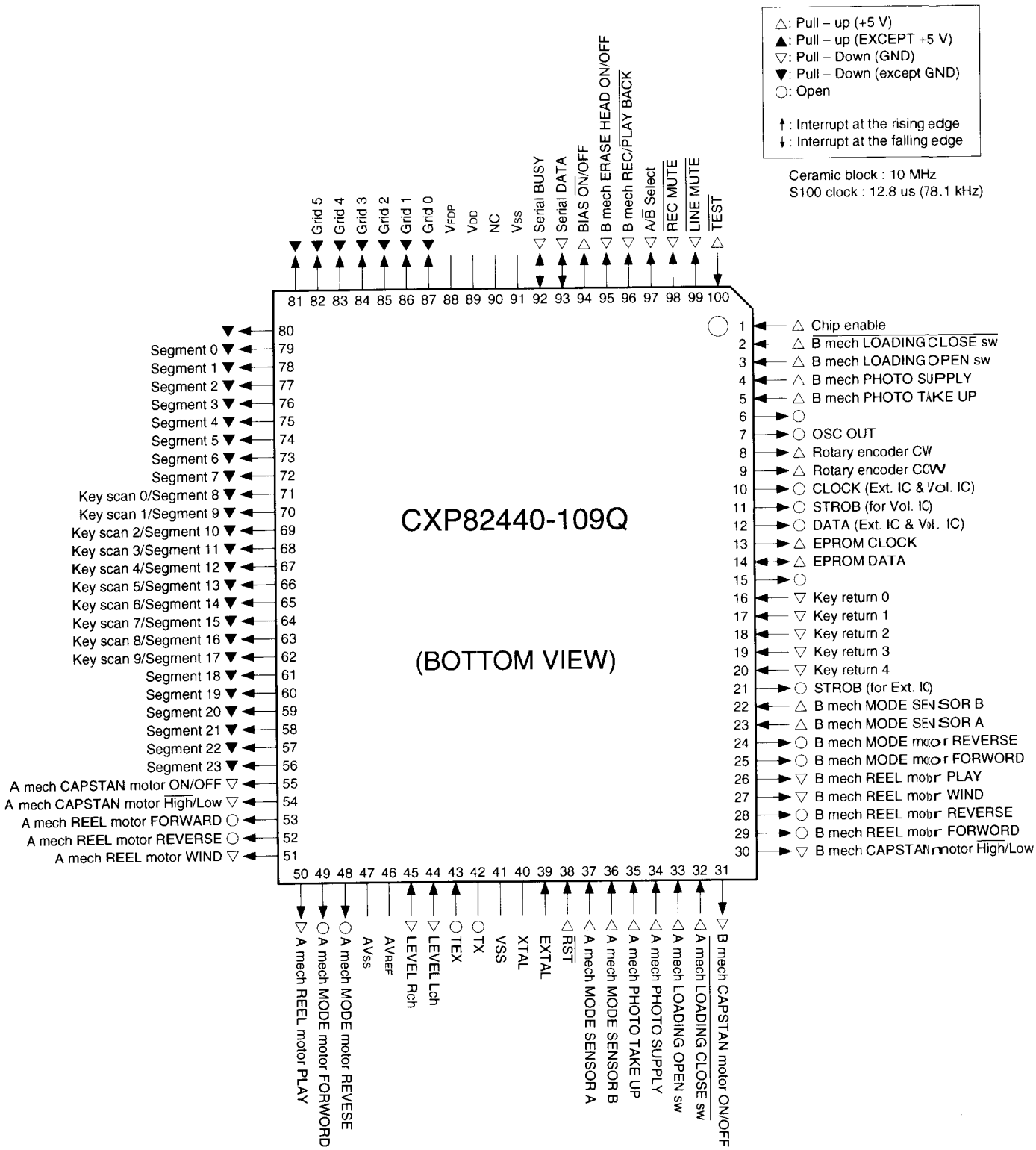
CIRCUIT DESCRIPTION

1.Microprocesser: periphery block diagram



CIRCUIT DESCRIPTION

Microprocesser: CXP82440-109Q (x28:IC4)
μ Com port layout


△: Pull – up (+5 V)
▲: Pull – up (EXCEPT +5 V)
▽: Pull – Down (GND)
▼: Pull – Down (except GND)
○: Open
↑: Interrupt at the rising edge
↓: Interrupt at the falling edge
Ceramic block : 10 MHz
S100 clock : 12.8 us (78.1 kHz)
CXP82440-109Q
(BOTTOM VIEW)
81 Grid 5
82 Grid 4
83 Grid 3
84 Grid 2
85 Grid 1
86 Grid 0
87 VFDP
88 VDD
89 NC
90 VSS
91 Serial BUSY
92 Serial DATA
93 BIAS ON/OFF
94 B mech ERASE HEAD ON/OFF
95 B mech REC/PLAY BACK
96 A/B Select
97 REC MUTE
98 LINE MUTE
99 TEST
100
1 Chip enable
2 B mech LOADING CLOSE sw
3 B mech LOADING OPEN sw
4 B mech PHOTO SUPPLY
5 B mech PHOTO TAKE UP
6
7 OSC OUT
8 Rotary encoder CW
9 Rotary encoder CCW
10 CLOCK (Ext. IC & Vol. IC)
11 STROB (for Vol. IC)
12 DATA (Ext. IC & Vol. IC)
13 EPROM CLOCK
14 EPROM DATA
15
16 Key return 0
17 Key return 1
18 Key return 2
19 Key return 3
20 Key return 4
21 STROB (for Ext. IC)
22 B mech MODE SENSOR B
23 B mech MODE SENSOR A
24 B mech MODE motor REVERSE
25 B mech MODE motor FORWORD
26 B mech REEL motor PLAY
27 B mech REEL motor WIND
28 B mech REEL motor REVERSE
29 B mech REEL motor FORWORD
30 B mech CAPSTAN motor High/Low
31 B mech CAPSTAN motor ON/OFF
32 A mech LOADING CLOSE sw
33 A mech LOADING OPEN sw
34 A mech PHOTO SUPPLY
35 A mech PHOTO TAKE UP
36 A mech MODE SENSOR B
37 A mech MODE SENSOR A
38 RST
39 EXTAL
40 XTAL
41 VSS
42 TX
43 TEX
44 LEVEL Lch
45 LEVEL Rch
46 AVREF
47 AVSS
48 A mech MODE motor REVESE
49 A mech MODE motor FORWORD
50 A mech REEL motor PLAY
51 A mech REEL motor WIND
52 A mech REEL motor REVERSE
53 A mech REEL motor FORWARD
54 A mech CAPSTAN motor High/Low
55 A mech CAPSTAN motor ON/OFF
56 Segment 23
57 Segment 22
58 Segment 21
59 Segment 20
60 Segment 19
61 Segment 18
62 Key scan 9/Segment 17
63 Key scan 8/Segment 16
64 Key scan 7/Segment 15
65 Key scan 6/Segment 14
66 Key scan 5/Segment 13
67 Key scan 4/Segment 12
68 Key scan 3/Segment 11
69 Key scan 2/Segment 10
70 Key scan 1/Segment 9
71 Key scan 0/Segment 8
72 Segment 7
73 Segment 6
74 Segment 5
75 Segment 4
76 Segment 3
77 Segment 2
78 Segment 1
79 Segment 0
80

CIRCUIT DESCRIPTION

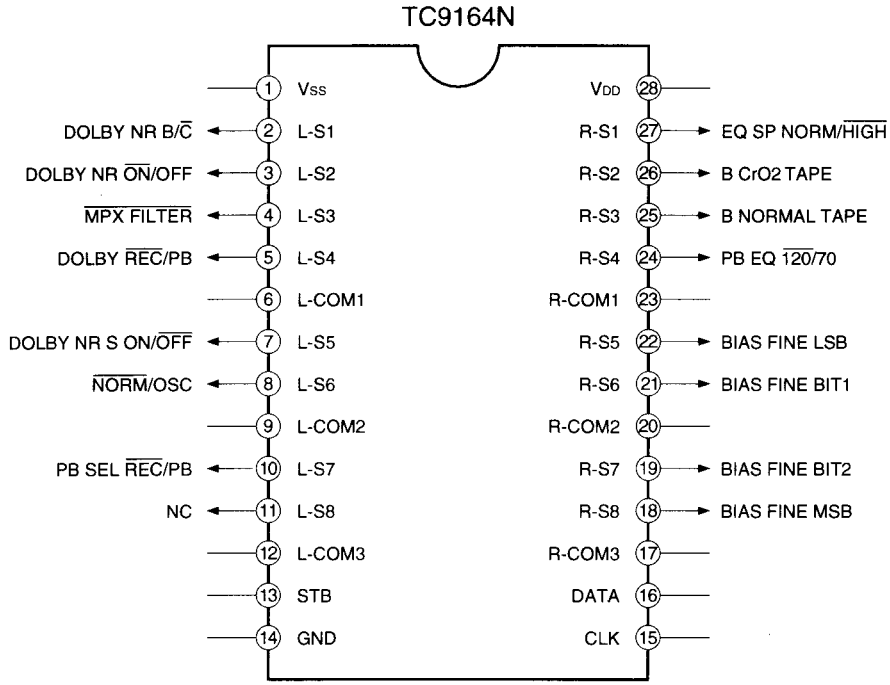
Pin Description

NO.	Name	I/O	Description
1	CHIP ENABLE	I	AC OFF detection
2	B MECH LODING CLOSE SW	I	Loading closed switch of B mechanism. Low when this switch is ON
3	B MECH LOADING OPEN SW	I	Loading open switch of B mechanism. High when this switch is ON
4	B MECH PHOTO SUPPLY	I	Reel rotation pulse input on the supply side of B mechanism
5	B MACH PHOTO TAKE UP	I	Reel rotation pulse input on the take-up side of B mechanism
6	NC	O	(Open)
7	OSC OUT	O	Rectangular wave output (400 Hz/12.5 kHz)
8	ROTARY ENCODER CW	I	Pulse input of rotary encoder
9	ROTARY ENCODER CCW	I	Pulse input of rotary encoder
10	SERIAL CLOCK	O	Clock for communication with volume IC and expansion IC
11	SERIAL STB no.0	O	Strobe for communication with volume IC
12	SERIAL DATA	O	Data for communication with volume IC and expansion IC
13	E2PROM CLOCK	O	Clock for communication with E2PROM
14	E2PROM DATA	I/O	Data for communication with E2PROM
15	NC	O	(Open)
16	KEY RETURN 0	I	Key return input
17	KEY RETURN 1	I	Key return input
18	KEY RETURN 2	I	Key return input
19	KEY RETURN 3	I	Key return input
20	KEY RETURN 4	I	Key return input
21	SERIAL STB no.1	O	Strobe for communication with expansion IC
22	B MECH MODE SENSOR B	I	Head position detection input for B mechanism
23	B MECH MODE SENSOR A	I	Head position detection input for B mechanism
24	B MODE MOTOR REVERSE	O	Head position movement motor's reverse rotation for B mechanism
25	B MODE MOTOR FORWARD	O	Head position movement motor's forward rotation for B mechanism
26	B REEL MOTOR PLAY	O	Reel play speed for B mechanism
27	B REEL MOTOR WIND	O	Reel speed and rewind speed for B mechanism
28	B REEL MOTOR REVERSE	O	Reel's reverse rotation for B mechanism
29	B REEL MOTOR FORWARD	O	Reel's forward rotation for B mechanism
30	B MECH CAPSTAN SPEED	O	Capstan speed selection of B mechanism. Low when at high speed.
31	B MECH CAPSTAN MOTOR	O	Capstan motor control for B mechanism. High when ON.
32	A MECH LOADING CLOSE SW	I	Loading closed switch of A mechanism. Low when this switch is ON.
33	A MECH LOADING OPEN SW	I	Loading open switch of A mechanism. High when this switch is ON.
34	A MECH PHOTO SUPPULY	I	Reel rotation pulse input on the supply side of A mechanism
35	A MECH PHOTO TAKE UP	I	Reel rotation pulse input on the take-up side of A mechanism
36	A MECH MODE SENSOR B	I	Head position detection input for B mechanism
37	A MECH MODE SENSOR A	I	Head position detection input for B mechanism
38	$\overline{\text{RESET}}$	I	Microcomputer reset pin
39	EXTAL	I	CERALOCK OSCILLATOR INPUT (Microcomputer operation clock)
40	XTAL		CERALOCK OSCILLATOR INPUT (Microcomputer operation clock)
41	Vss		Microcomputer GND
42	CRYSTAL OSCILLATOR INPUT		(Open)
43	CRYSTAL OSCILLATOR INPUT	I	(Open)

CIRCUIT DESCRIPTION

NO.	Name	I/O	Description
44	LEVEL L CHANNEL	I	Sound signal. L-channel input.
45	LEVEL R CHANNEL	I	Sound signal. R-channel input.
46	AV_{REF}		Reference voltage for A/D converter
47	AV_{SS}		Reference ground for A/D converter
48	A MODE MOTOR REVERSE	O	Head position movement motor's reverse rotation for A mechanism
49	A MODE MOTOR FORWARD	O	Head position movement motor's forward rotation for A mechanism
50	A REEL MOTOR PLAY	O	Reel play speed for A mechanism
51	A REEL MOTOR WIND	O	Reel speed and rewind speed for A mechanism
52	A REEL MOTOR REVERSE	O	Reel's reverse rotation for A mechanism
53	A REEL MOTOR FORWARD	O	Reel's forward rotation for A mechanism
54	A MECH CAPSTAN SPEED	O	Capstan speed selection of A mechanism. Low when at High speed
55	A MECH CAPSTAN MOTOR	O	Capstan motor control for A mechanism. High when ON
56~63	FDP SEGMENT 23~16	O	FDP segment: 23~16
64	FDP SEGMENT 15	O	FDP segment: 15. Hardware key scan 7
65	FDP SEGMENT 14	O	FDP segment: 14. Hardware key scan 6
66	FDP SEGMENT 13	O	FDP segment: 13. Hardware key scan 5
67	FDP SEGMENT 12	O	FDP segment: 12. Hardware key scan 4
68	FDP SEGMENT 11	O	FDP segment: 11. Hardware key scan 3
69	FDP SEGMENT 10	O	FDP segment: 10. Hardware key scan 2
70	FDP SEGMENT 9	O	FDP segment: 9. Hardware key scan 1
71	FDP SEGMENT 8	O	FDP segment: 8. Hardware key scan 0
72~79	FDP SEGMENT 7~0	O	FDP segment: 7~0
80	NC	O	(Open)
81	NC	O	(Open)
82	FDP GRID 5	O	FDP grid: 5
83	FDP GRID 4	O	FDP grid: 4
84	FDP GRID 3	O	FDP grid: 3
85	FDP GRID 2	O	FDP grid: 2
86	FDP GRID 1	O	FDP grid: 1
87	FDP GRID 0	O	FDP grid: 0
88	V_{FDP}		FDP display power (-30 V)
89	V_{DD}		Microcomputer power
90	NC		(V_{DD})
91	V_{SS}		Microcomputer GND
92	SYNCRO BUSY	I/O	Communication busy between serial equipment
93	SUNCRO DATA	I/O	Communication busy between serial equipment
94	BIAS	O	Recording bias control of REC/PB head. Low when ON.
95	B MECH ERASE HEAD	O	Erase head control of B mechanism. High when ON.
96	B MECH REC/PB	O	REC/PB selection control of B mechanism. Low when in REC.
97	A/B DECK SELECT	O	PB output selection of A/B deck. High for A deck.
98	REC MUTE	O	REC mute control. Low when ON.
99	LINE MUTE	O	Line mute control. Low when ON.
100	TEST	I	Test pin. Enters TEST when Low.

CIRCUIT DESCRIPTION



Pin Description of Expansion IC

NO.	Pin name	I/O	Name	Description
1	Vss			
2	L-S1	O	DOLBY NR B/ C	Low for DOLBY NR C type only.
3	L-S2	O	DOLBY NR ON /OFF	DOLBY selection. OFF for S type.
4	L-S3	O	MPX ON /OFF	MPX filter selection
5	L-S4	O	DOLBY REC /PLAY BACK	REC/PB selection
6	L-COM1			
7	L-S5	O	DOLBY NR S/ OTHERS	DOLBY S selection
8	L-S6	O	NORMAL /OSC OUT	Source selection
9	L-COM2			
10	L-S7	O	PB SELECTOR REC /PB	Selection of PB selector circuit
11	L-S8	O		
12	L-COM3			
13	STB			
14	GND			
15	CLK			
16	DATA			
17	R-COM3			
18	R-S8	O	BIAS FINE MSB	Bias variable. bit 3
19	R-S7	O	BIAS FINE	bit 2
20	R-COM2			
21	R-S6	O	BIAS FINE	bit 1
22	R-S5	O	BIAS FINE LSB	bit 0
23	R-COM1			
24	R-S4	O	120u /70u	PB equalizer selection
25	R-S3	O	NORMAL/ METAL	Tape type selection
26	R-S2	O	CrO2/ METAL	Tape type selection
27	R-S1	O	EQUALIZER HIGH /NORM	Selection of equalizer's tape speed
28	Vdd			

CIRCUIT DESCRIPTION

3. OPERATION SPECIFICATION MANUAL

3-1. Function Description

Control microcomputer of two-head dual cassette deck (KX-W8070S)

3-1-1. Features

1) Three-motor, two-head single capstan mechanism
2) AUTO BIAS (Deck B only)
3) DPSS
4) CCRS
5) DOLBY noise reduction B/C/S (HX-PRO) is installed.
6) XS8

3-1-2. Controlled Equipment

1) Cassette mechanism	GKS-7100 x 2
2) Display	FL display tube FIP6AMW6
3) Volume IC	TC9213P
4) Analog switch IC	TC9164N
5) REC/PB circuit unit	(X28-2710-XX)

3-1-3. Microcomputer Used

CXP82440-109Q

3.2 Initial State

The data to be backed up and the initial state of the main unit are as shown below.

Item	State
POWER	STANDBY
DOLBY	OFF
MPX FILTER	OFF
AUTO BIAS	OFF
Counter block display	Tape counter
Bias value	Center (Display 0)
REC level	-15 dB (Display -15)
REC balance	Center
Serial mode	No setting *1

*1 For no setting, the serial mode is set by the diode shorting between the KS5 KR2 pins in a key matrix. (The factory setting is based on an 8-bit format.)

※The initial state is entered when the AC power is turned ON while pressing the stop key of deck B.

3-3. Test Mode

• Setting

The test mode is entered when the two pins above are shorted using a diode (TP⑤ ⊣▷⊢ TP④)and when the power is turned on.

• Cancellation

The test mode is canceled when the PAUSE key is set to ON or the AC power is turned OFF. The contents of data that was changed in the test mode are not backed up.

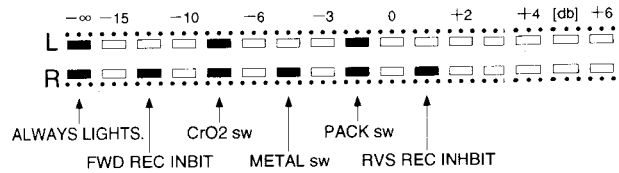
3-3-1. TEST Specification

1) All-light indicators

All the indicators are turned ON 500 ms after the power is turned on and light for about 1.5 seconds.

2) Mechanical switch indicator'

For each mechanical switch setting, deck A of a level meter is displayed in channel R and deck B is displayed in channel L when line muting is ON.

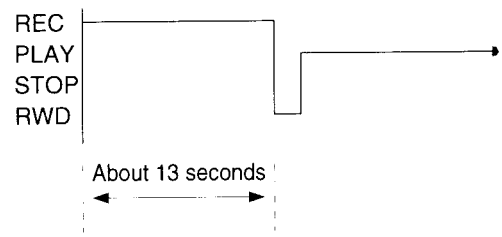


3) Direct change

The REC state is directly entered even in the PLAY state.

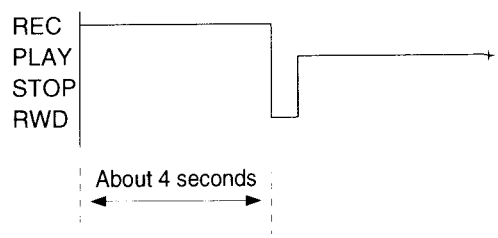
4) 13-second REC

The REC state is entered for 13 seconds when the timer switch is set to REC during TEST1 activation and when there is a cassette half. The tape is automatically rewound and played back in this case. The DOLBY mode in the REC and PB state can be changed.



5) 4-second REC

The REC state is entered for four seconds when the REC key is pressed. The tape is automatically rewound and played back in this case. The REC state is entered for four seconds again when the REC key is pressed in the REC state again. The DOLBY mode in the REC and PB state can be changed.



6) AUTO BIAS

The auto bias shortens the setup time. It shortens the first arm time from 10 seconds to 3 seconds. Line muting is turned OFF during auto bias setting.

CIRCUIT DESCRIPTION

7) PB at 1.5 times normal speed/constant speed
The tape is played back in the forward direction at 1.5 times the normal speed from the STOP or PLAY mode when the FF key is pressed. The change between the constant speed and two times normal speed in the PLAY state is performed at only the tape speed. The head does not go down in this case.

8) REC electronic volume
The volume changes in the range of -∞, -15, and 0 when the rotary encoder is turned upward.
The volume changes in the range of 0, -15, and -∞ when the rotary encoder is turned downward.

9) CCRS
The REC PAUSE state is entered when the CCRS key is pressed. The REC level is set in this case.
The CCRS key blinks during REC level setting.

3-3-3 Synchro Test of Deck Block (16-Bit Format)

•Deck synchro test code (E0xxH)

•Synchro test ON
The synchro test is turned ON using a synchro test ON code (40H) when the deck power is turned ON.

•Synchro test OFF
The synchro test is turned OFF using a synchro test OFF code (41H). As a result, the state before synchro test is returned. Since the backup state is canceled, the initial value is set in a backup area when the power is turned OFF next.
*All the keys of the main unit are disabled when the synchro test mode is entered.

•DOLBY control (Low-order code)
DOLBY OFF: 37H
DOLBY B ON: 38H
DOLBY C ON: 39H
DOLBY S ON: 3DH

•Enable/ignore of tape selector (mechanical tape discrimination leaf switch)
Tape selector ON code (42H)
Enables the leaf switch of the mechanism.
Tape selector OFF code (43H)
Ignores the leaf switch of the mechanism.

•The selector is changed by the codes below after the above OFF code (43H) was input when the tape selector is changed by a serial code.
NORMAL (29H)
CrO2 (2AH)
METAL (2BH)

•Synchronous mode selection
The synchronous mode is changed from 8 bits to 16 bits and from 16 bits to 8 bits. For 16 bits, the mode is selected by inputting E04EH. For 8 bits, the mode is selected by inputting FFH. However, the synchro test mode is not canceled even if the mode is changed.

•Code exclusively used for 4-second REC and 13-second REC
Reel pulse counter reset (47H)
The reel pulse counter is reset (0000) when deck B is in the REC state.
Reverse rewinding (48H)
The tape is rewound in the direction opposite to the current tape transport direction. The reel pulse counter is put into the count-down operation state.
Reverse play in reel pulse reset position (49H)
The tape is reversed and played back in the reel pulse counter reset position (where 47H is inserted).

•Procedure of 4-second REC and 13-second REC operations

1) B REC (25H) input
Deck B is put into the REC state.

2) Reel pulse counter reset (47H) input
The reel pulse counter is reset (0000) to determine the rewind position. In this case, an external timer is started to measure the REC time.

3) Rewind (48H) input after REC operation for the desired time period
The tape is reversed, and the deck is put into the rewind operation state at two times the normal speed. The reel pulse counter is put into the count-down operation state. After that, perform step (4).

4) Reverse play (49H) input in reel pulse counter reset position
The tape is reversed to the reset position (counter 0000) after the count-down operation is completed, and the deck is put into the play operation state.

This operation mode is canceled when mechanical operation codes other than described above are input during a series of operation. Normal operation may not be performed in this case.

CIRCUIT DESCRIPTION

SYNCHRO CORD LIST (16-bit)

	Low-order code
A FWD PLAY	10H
A RVS PLAY	11H
A FF	12H
A RWD	13H
A STOP	14H
	15H
	16H
A NORMAL SPEED	17H
A HIGH SPEED	18H
A NORMAL TAPE POS.	19H
A CrO2 TAPE POS.	1AH
A METAL TAPE POS.	1BH
	1CH
	1DH
	1EH
	1FH

	Low-order code
B FWD PLAY	20H
B RVS PLAY	21H
B FF	22H
B RWD	23H
B STOP	24H
B REC	25H
B PAUSE	26H
B NORMAL SPEED	27H
B HIGH SPEED	28H
B NORMAL TAPE POS.	29H
B CrO2 TAPE POS.	2AH
B METAL TAPE POS.	2BH
B FWD REC	2CH
B RVS REC	2DH
	2EH
	2FH

	Low-order code
CCRS	30H
	31H
	32H
AUTO BIAS	33H
	34H
NORM SPEED DUBBING	35H
HIGH SPEED DUBBING	36H
DOLBY NR OFF	37H
DOLBY NR B ON	38H
DOLBY NR C ON	39H
ONE WAY MODE	3AH
REVERSE MODE	3BH
ENDLESS MODE	3CH
DOLBY NR S ON	3DH
	3EH
	3FH

	Low-ordercode
SYNCRO TEST ON	40H
SYNCRO TEST OFF	41H
TAPE SELECTOR ON	42H
TAPE SELECTOR OFF	43H
REC VOLUME MAXIMUM	44H
REC VOLUME CENTER	45H
REC VOLUME MINIMUM	46H
*1	47H
*2	48H
*3	49H
MPX ON	4AH
MPX OFF	4BH
	4CH
	4DH
SYNCRO 8bit MODE	4EH
	4FH

*1: Sets the internal tape counter to "0000". (Memorizes the start position.)
*2: Rewinds in the PLAY state of 1.5 times the normal speed.
*3: Performs the PLAY operation when the internal tape counter is set to "0000".

CIRCUIT DESCRIPTION

3-3-4 Synchro Test of Deck Block (8-Bit Format)

The operation description is the same as in a 16-bit format. However, since the number of codes is small, the code that does not correspond exists in an 8-bit format.

SYNCRO CORD LIST (8bit)

	CORD
SYNCRO TEST ON	70H
SYNCRO TEST OFF	71H
	72H
	73H
	74H
	75H
	76H
	77H
	78H
	79H
	7AH
	7BH
	7CH
	7DH
	7EH
	7FH

	CODE
A FWD PLAY	E0H
A RVS PLAY	E1H
A FF	E2H
A RWD	E3H
A STOP	E4H
DOLBY NR OFF	E5H
DOLBY NR C ON	E6H
ONE WAY MODE	E7H
ENDLESS MODE	E8H
	E9H
A NORMAL SPEED	EAH
A HIGH SPEED	EBH
REC VOLUME MAXIMUM	ECH
REC VOLUME CENTER	EDH
REC VOLUME MINIMUM	EEH
	EFH

	CODE
B FWD PLAY	F0H
B RVS PLAY	F1H
B FF	F2H
B RWD	F3H
B STOP	F4H
B REC	F5H
CCRS	F6H
	F7H
NORM SPEED DUBBING	F8H
HIGH SPEED DUBBING	F9H
B NORMAL SPEED	FAH
B HIGH SPEED	FBH
*1	FCH
*2	FDH
*3	FEH
SYNCRO 16bit MODE	FFH

*1: Sets the internal tape counter to "0000". (Memorizes the start position.)
*2: Rewinds in the PLAY state of 1.5 times the normal speed.
*3: Performs the PLAY operation when the internal tape counter is set to "0000".

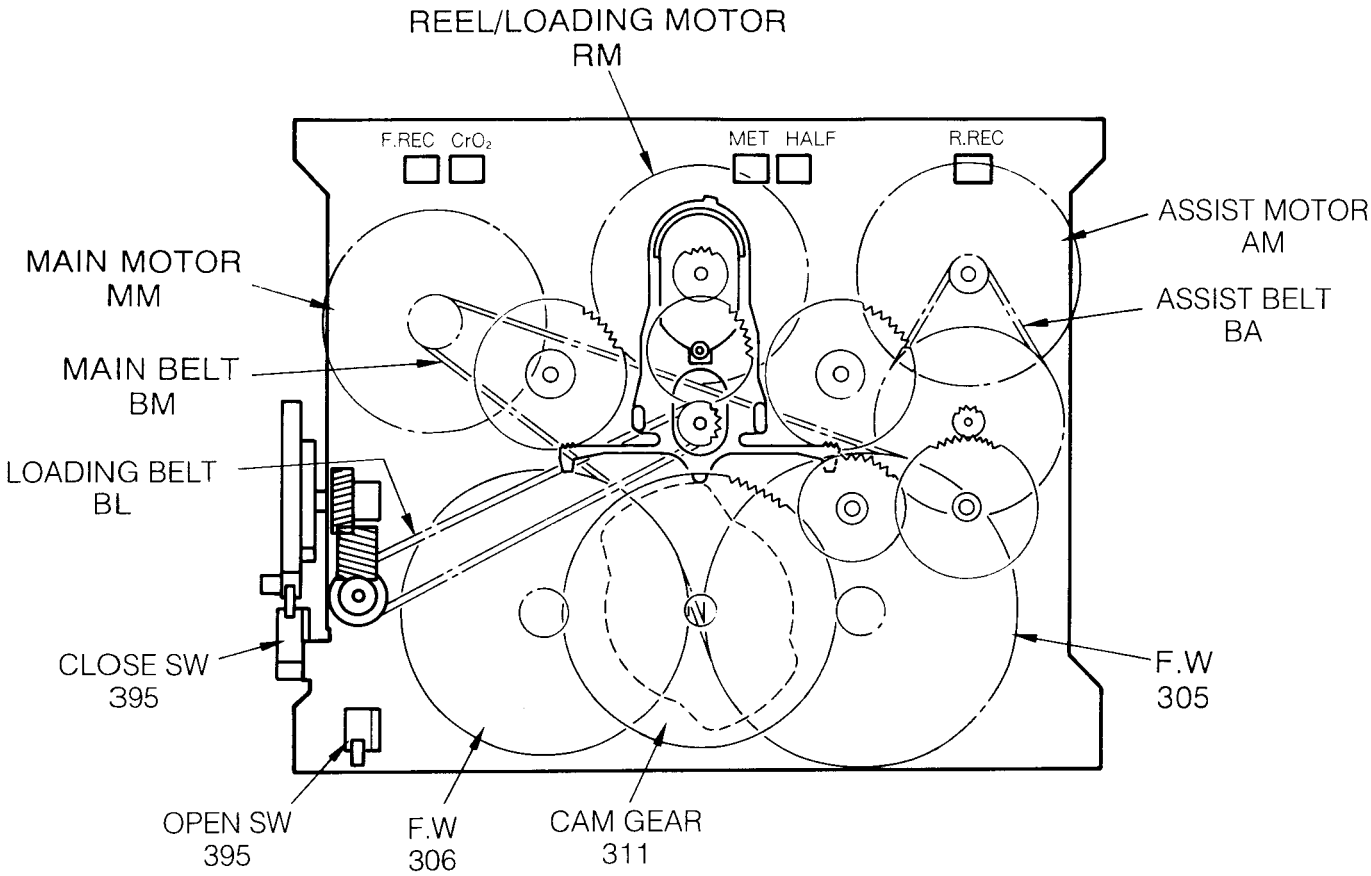
CIRCUIT DESCRIPTION

4. KEY MATRIX

	KS0	KS1	KS2	KS3	KS4	KS5	KS6	KS7	KS8	KS9
KR7										
KR6										
KR5										
KR4										B MECH METAL SW
KR3		MPX	A DECK STOP	B DECK FWD PLAY	MODE		B DECK FF	B DECK PAUSE	A MECH PACK SW	B MECH PACK SW
KR2	DIRECTION	CCRS	A DECK RVS PLAY	B DECK STOP	TIMER REC	SYNCRO 16bit	B DECK RWD	B DECK REC		B MECH RVS REC SW
KR1	DOLBY NR		B COUNTER RESET	B DECK RVS PLAY	TIMER PLAY	B DECK OPEN/CLOSE	NORMAL DUBBING	HIGH SPEED DUBBING		B MECH FWD REC SW
KR0	A COUNTER RESET		AUTO BIAS	A DECK FWD PLAY	POWER	A DECK OPEN/CLOSE	A DECK RWD	A DECK FF	A MECH CrO2 SW	B MECH Cr02 SW

KX-W8070S

MECHANISM OPERATION DESCRIPTION

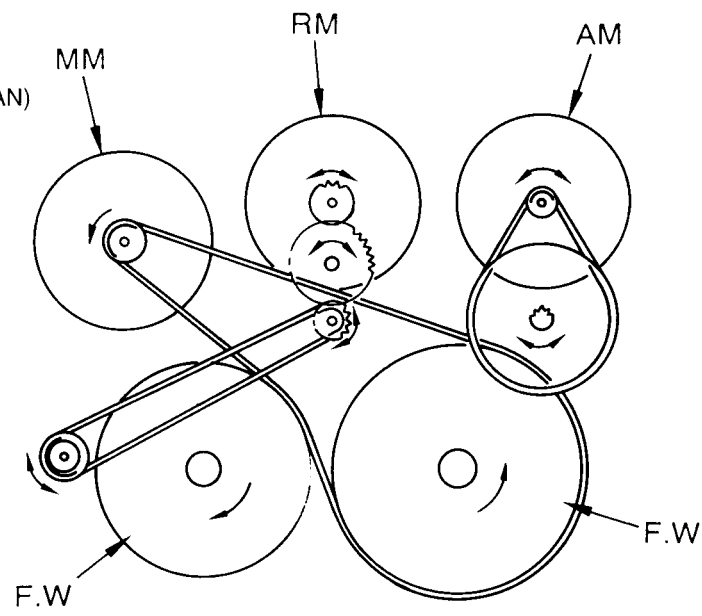


Mechanism specification

Use of parts

MM	T42-0635-08	DC MOTOR ASSY (CAPSTAN)
RM	T42-0629-08	DC MOTOR ASSY
AM	T42-0630-08	DC MOTOR ASSY
BM	D16-0346-08	MAIN BELT
BA	D16-0389-08	ASSIST BELT
BL	D16-0340-08	LOADING BELT

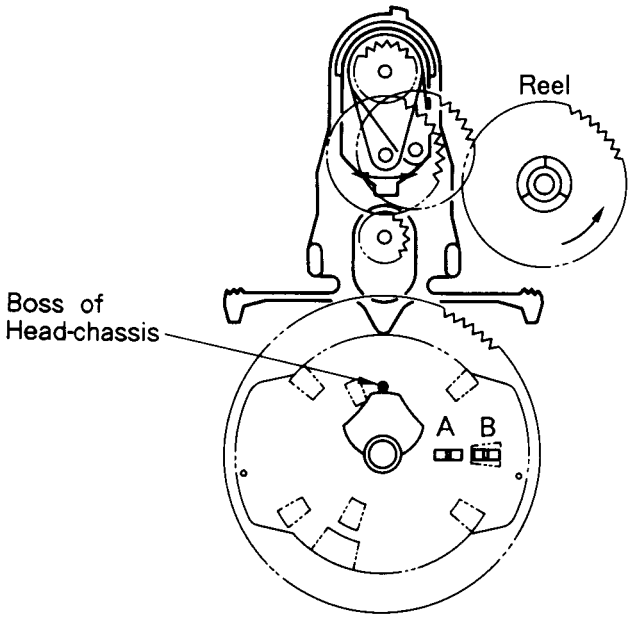
PLAY Torque: 35~55 g·cm
FF/RWD Torque: 70~160 g·cm
Back Tension Torque: 2~5 g·cm



MECHANISM OPERATION DESCRIPTION

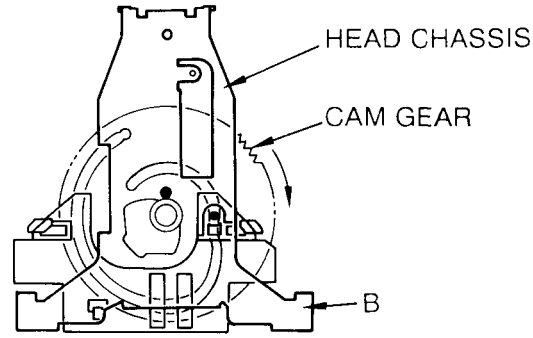
PLAY/REC

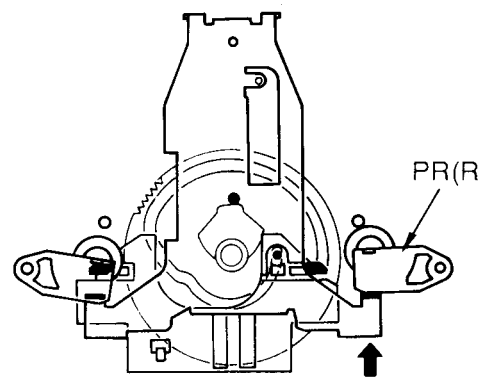
① Rotate the assist motor, and adjust the cam gear by watching the state of the mechanism position detection SW.
A OFF H B ON L corresponds to the PLAY/REC position.
At this position the pulley is engaged with the reel, and the tape is wound by the rotation of the reel motor.
The head is raised by the cam of the cam gear, and the deck is in the PLAY/REC mode.



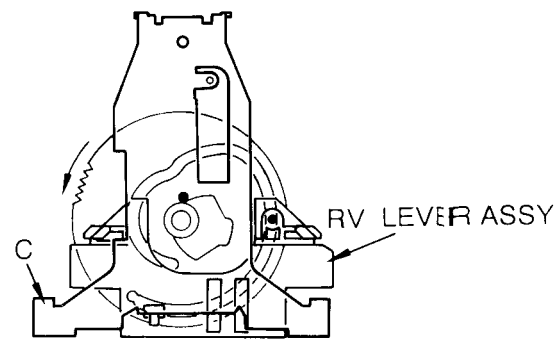
② The head chassis is raised up to the PLAY/REC position due to the rotation of the CAM GEAR, but the bent portion B pushes the spring of the pinch roller ASSY (R) up, and the pinch roller (R) is pushed against the capstan of the FWD side.

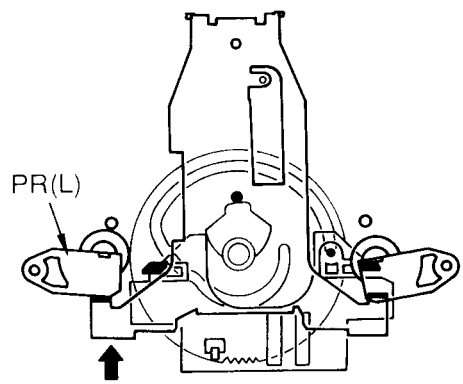
③ The RV LEVER ASSY is moved to the RVS position, and the head chassis is raised up to the PLAY/REC position, due to the rotation of the CAM GEAR.
The bent portion C pushes the spring of the pinch roller ASSY (L) UP, the pinch roller is pushed against the capstan, and the mechanism gets in the RVS PLAY/REC operation mode.





(FWD PLAY/REC)





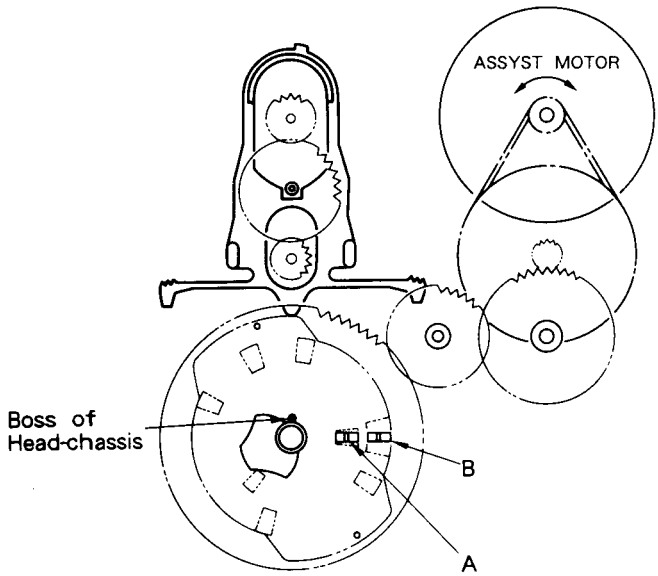
(RVS PLAY/REC)

KX-W8070S

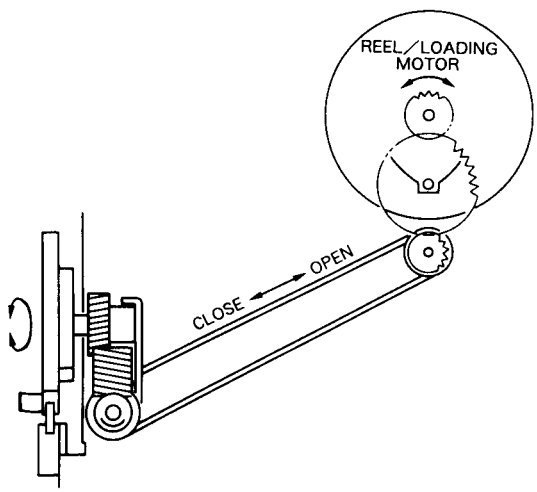
MECHANISM DESCRIPTION

STOP/OPEN/CLS

① The assist motor rotates, and sets the mechanism to the STOP position by watching the state of the mechanism position detection SW.
Both mechanism position detection SW A and B stop at the ON position.
The brake ASSY is pushed up, and the reel idler is fixed.
The head is pushed down, because the cam of the cam gear is at the position shown in the figure.

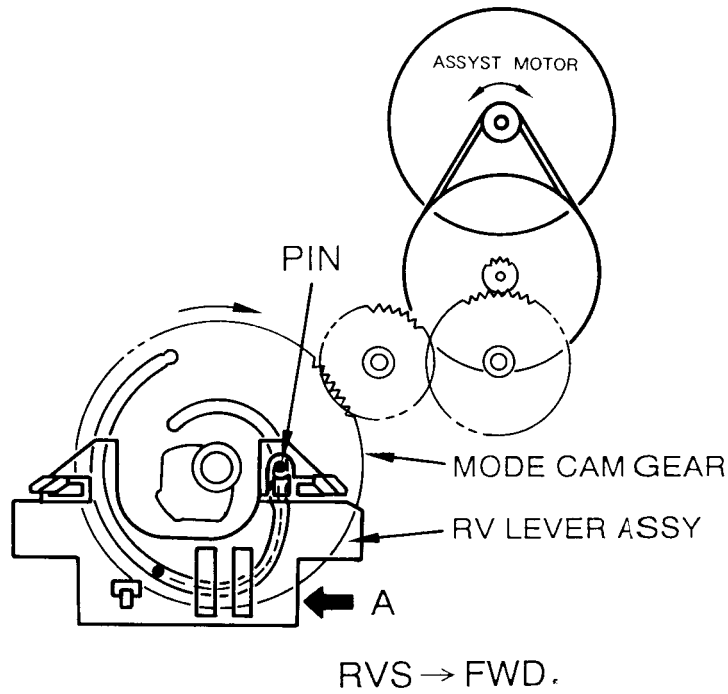


② The rotation of the reel motor rotates the OPEN/CLOSE pulley via reel idler.

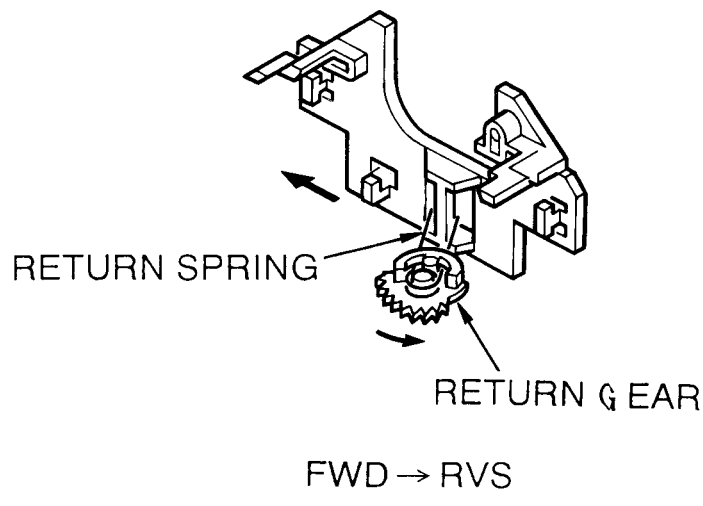


DIRECTIOLN SELECT

① Since the MODE CAM GEAR rotates and the RV LEVER PIN is pushed against the groove of the CAM GEAR as a result of the retation of the ASSIST MOTOR, the RV LEVER ASSY moves in the direction of the arrow A .



② The return spring is pushed, and furthermore the return gear is rotated, due to the movement of the RV LEVER ASSY.
As a result, the HEAD ASSY gets at the FWD position.



③ The FWD → RVS switching operation is the opposite.

MECHANISM DESCRIPTION

FF/RWD

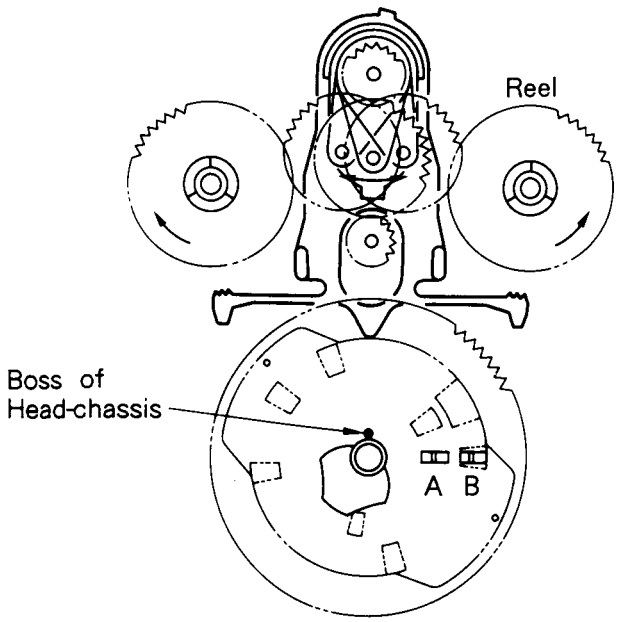
④ The cam gear is adjusted by the rotation of the assist motor.

A OFF B ON

The cam bear is at the position shown in the figure, and the head is lowered.

Moreover, the brake is also lowered.

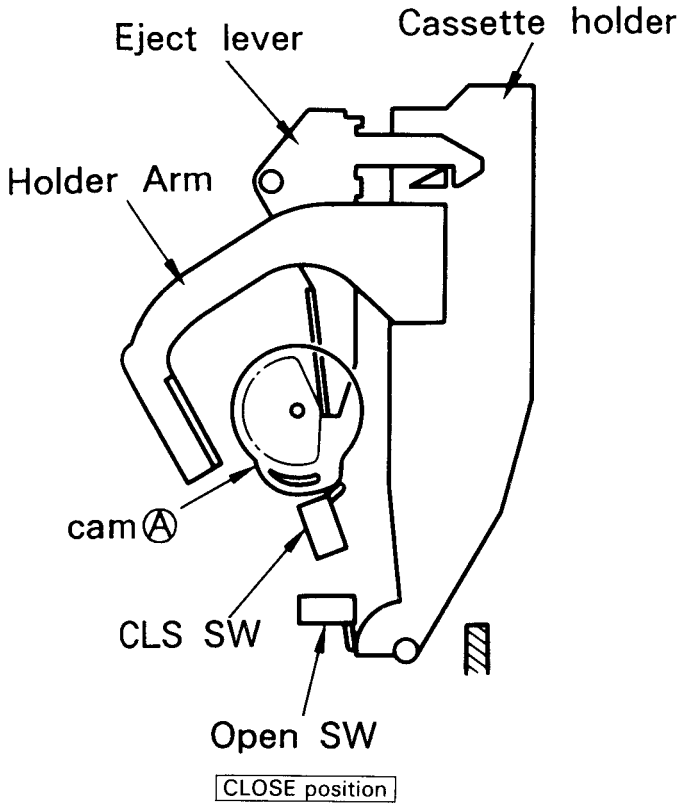
FF/RWD is controlled by the rotation of the reel motor.



KX-W8070S

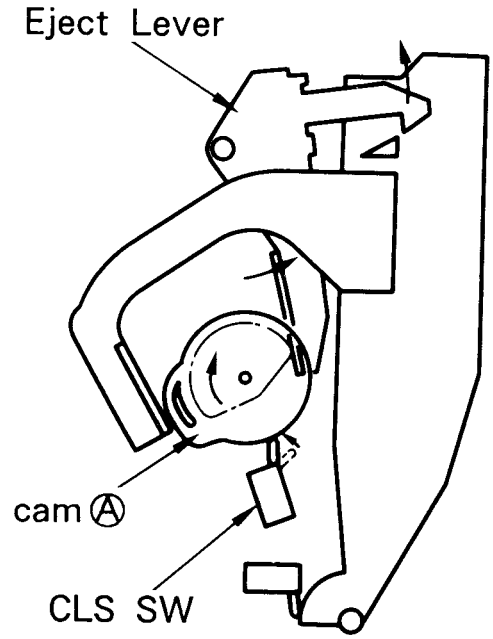
MECHANISM DESCRIPTION

Cassette CLOSE/OPEN

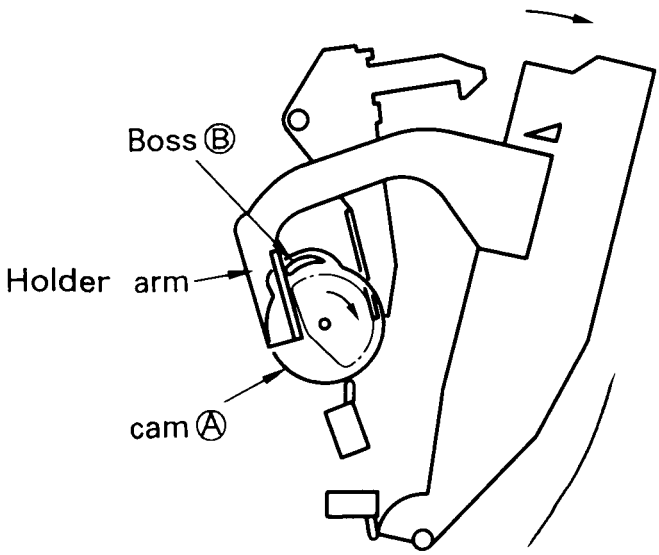


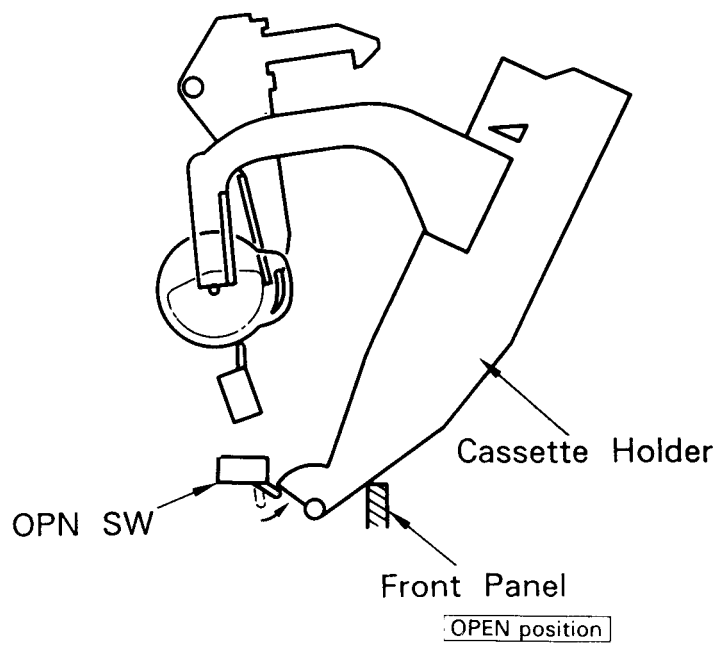
1) The cam A starts rotating
2) CLS SW turns OFF
3) The eject lever moves to the arrow direction, and the holder come off the stopper.

4) When the cam A further rotates, the boss B begins to open while holding the tongue of the holder arm.



5) The cam stops rotating when the cassette holder comes off the OPN SW.
6) The cassette holder touches the front panel, and the holder gets at the open position.





ADJUSTMENT

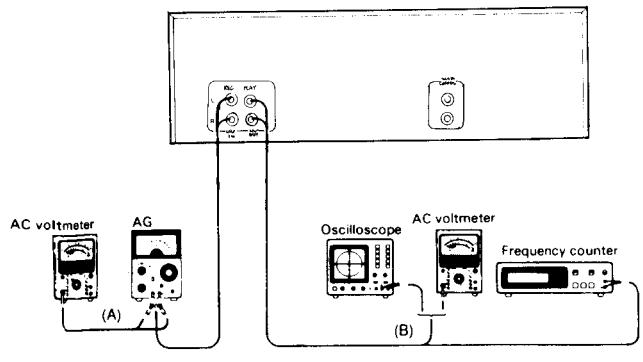
Cassette Deck section

No.	ITEM	INPUT SETTING	OUTPUT SETTING	DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specifilied, set the respective switches as follows: **TAPE : NORMAL DOLBY : OFF INPUT : LINE**							
I. Cassette mechanism section (Recording/play head adjustment)							
1	Degaussing and cleaning	—	—	Power : off, Degaussing, cleaning, PLAY	Recording heads, Erase heads, Capstans, Pinch rollers (A, B DECK)	Degauss the recording/play heads by a deads eraser. Clean the recording/play heads,erase heads capstans and pinch rollers by a cotton swab soaked with alcohol.	
2	Recording/play head azimuth	SCC-1727 TCC-153 MTT-114 10kHz -10dBs	(B)	PLAY	Azimuth adjustment screw (A, B DECK)	Maximize the output and adjust so that the Lissajous figure nears a line slanted 45°	
II. Printed circuit borad adjustment Note : First perform the double-speed adjustment.							
1	Tapa speed (1.5 times)	SCC-1727, TCC-110, MTT-111, 3kHz,	(B)	※TEST MODE	A DECK : VR2 B DECK : VR4	Adjust so that the frequency is 4.5 kHz at the tape center.	
2	Tape speed (normal)	SCC-1727, TCC-110, MTT-111, 3kHz,	(B)		A DECK : VR1 B DECK : VR3	Adjust so that the frquency is 3 kHz at the tape center.	
III. Printed circuit board adjustment (X28-5620-XX)							
1	PLAYBACK LEVEL	MTT-150 400Hz(200nWb)	(B)	PLAY	A DECK : VR9(L) VR10(R) B DECK : VR11(L) VR12(R)	Output level : -1.0dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Output level : -4.0dBs	
		MTT-256U,TCC-160 315Hz(250nWb)				Output level : 0dBs	
2	BIAS CURRENT	(A) 1kHz, -10dB 10kHz, -30dBs	(B)	Adjust REC LEVEL so that the REC monitor output becomes -30dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	B DECK : VR5(L) VR6(R)	Adjust the bias current adjusting VR so that the playback level of the 10kHz signal is +0.5dB higher than that of the 1kHz signal when recording a 1kHz signal and a 10kHz signal altemately.	
3	RECORD LEVEL	(A) 1kHz, -30dBs	(B)	Record and rproduce a 1kHz signal under the conditions set in (2).	B DECK : VR15(L) VR16(R) (X26)A/4	Adjust the variable resistors so that a playback level of -10dBs is obtained.	

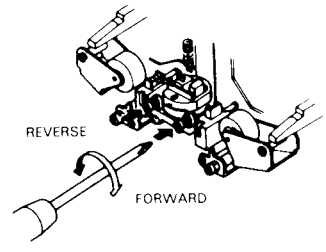
※ TEST MODE

Short circuit PT ⑤ ⊣⊢ ④ and turn the POWER ON. FF KEY : HIGH SPEED, FWD KEY : NORMAL SPEED

SYSTEM CONNECTIONS (B)



(a) AZIMUTH ADJUSTMENT SCREW



KX-W8070S

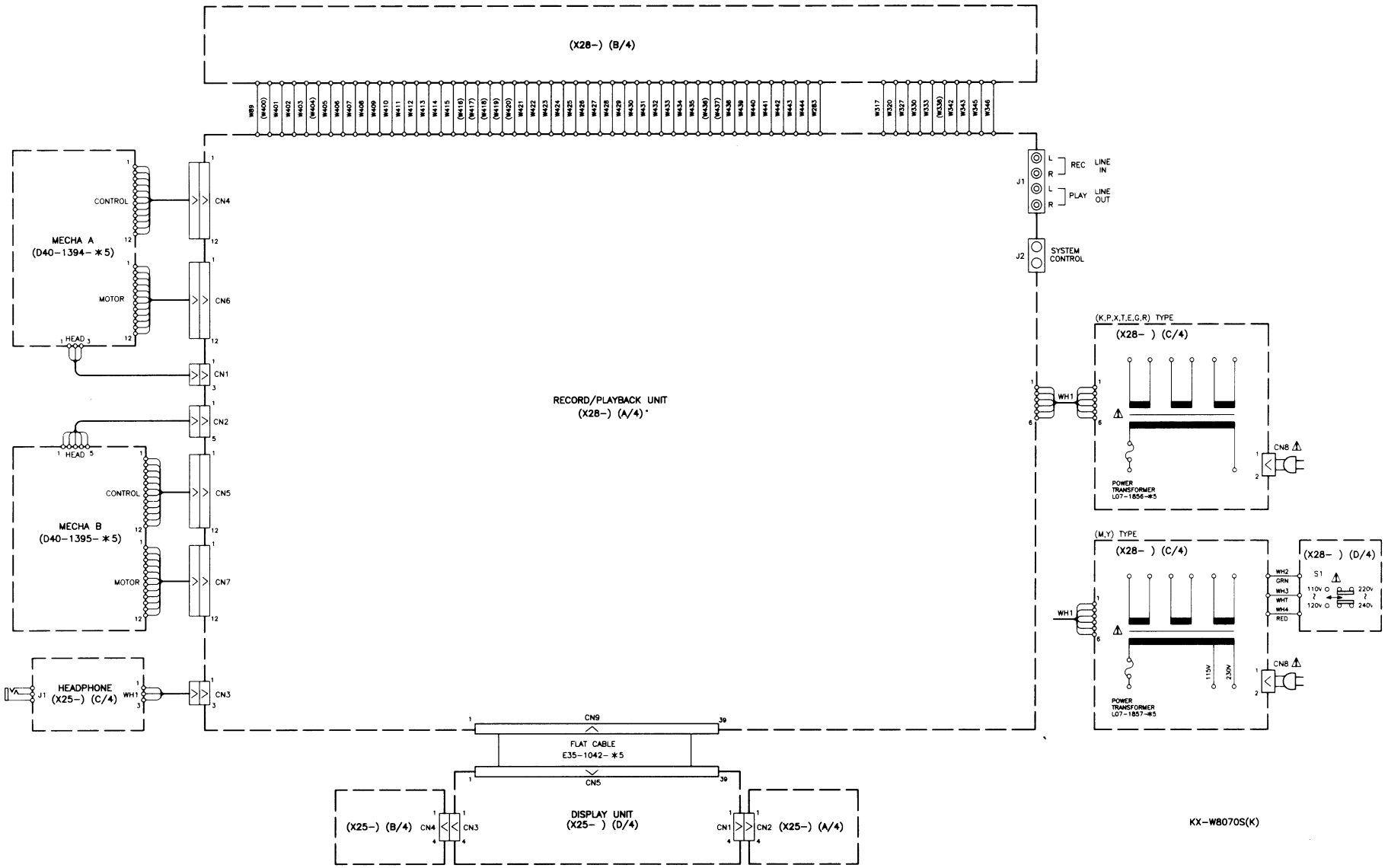
AJUSTES

Cassette Deck seccíon

Orden	Ítem	Ajuste de entrada	Ajuste de salida	Ajuste de la platina	Puntos de ajuste	MÉtodo de ajuste	Fig.
A menos que se indique lo contrario, ajustar los interruptores respectivos de la manera siguiente: TAPE : NORMAL DOLBY : OFF INPUT : LINE							
I. sección del mecanismo de la cassette (ajuste de la cabeza de grabación/reproducción)							
1	Desmagneti-zación y limpieza	—	—	Alimentación : apagado, desmagnetización, limpieza, reproducción	Cabezas de grabación, cabezas de borrado, ejes de arrastre, rodillos presores (PLATINA A, B)	Desmagnetizar las cabezas de grabación/reproducción con un borrador de cabezas .Limpiar las cabezas de grabación/ reproducción, cabezas de borrado, ejes de arrastre y rodillos presores con un bastoncillo de algodón humedecido en alcohol.	
2	Acimut de la cabeza de grabación/ reproducción	SCC-1727 TCC-153 MTT-114 10kHz -10dBs	(B)	REPRODUCCIÓN (PLAY)	Tornillo de ajuste del acimut (PLATINA A, B)	Maximizar la salida y ajustar de manera que la forma de Lissajous se aproxime a una lÌnea inclinada 45°	
II. Ajuste de la tarjeta de circuito impreeso			**Nota : Efectuar primero el ajuste de la velocidad doble.**				
1	Velocidad de la cinta (1.5 duplicació)	SCC-1727, TCC-110, MTT-111, 3kHz,	(B)	※Modo de prueba	PLATINA A : VR2 PLATINA B : VR4	Ajustar de manera que la frecuencia sea de 4.5 kHz en el centro de la cinta.	
2	Velocidad de la cinta (normal)	SCC-1727, TCC-110, MTT-111, 3kHz,	(B)		PLATINA A : VR1 PLATINA B : VR3	Ajustar de manera que la frecuencia sea de 3 kHz en el centro de la cinta.	
III. Ajuste de la tarjeta de circuito impreso(X28-5620-XX)							
1	NIVEL DE REPRO DU CCIÓN	MTT-150 400Hz(200nWb)	(B)	REPRODUCCIÓN	PLATINA A : VR9(L) VR10(R) PLATINAB : VR11(L) VR12(R)	Nivel de salida : -1.0dBs	
		MTT-256,SCC-1727 315Hz(160nWb)				Nivel de salida : -4.0dBs	
		MTT-256,TCC-160 315Hz(250nWb)				Nivel de salida : 0dBs	
2	CORRIENT DE POLARIZACIÓN	(A) 1kHz, -10dB 10kHz, -30dBs	(B)	Ajuste REC VR LEVEL, de forma que la salida del monitor de grabación sea de -30dBs a 1kHz, y después grabe y reproduzca alternativam ente señales de 1kHz y 10kHz.	PLATINA B : VR5(L) VR6(R) (X26)(A/4)	Ajuste la corriente de polarización regulando el resistor variable de forma que el nivel de reproducción de la señal de 10kHz sea +0.5dB superior que el de la señal de 1kHz cuando grabe alternativamente señales de 1kHz y de 10kHz.	
3	NIVEL DE GRABACIÓN	(A) 1kHz, -30dBs	(B)	Grabe y reproduzca una señal de 1kHz en las condiciones establecidas en (2).	PLATINA B : VR15(L) VR16(R) (X26)(A/4)	Ajuste los resistores variables hasta obtener un nivel de reproducción de -10dBs.	

※ Modo de prueba

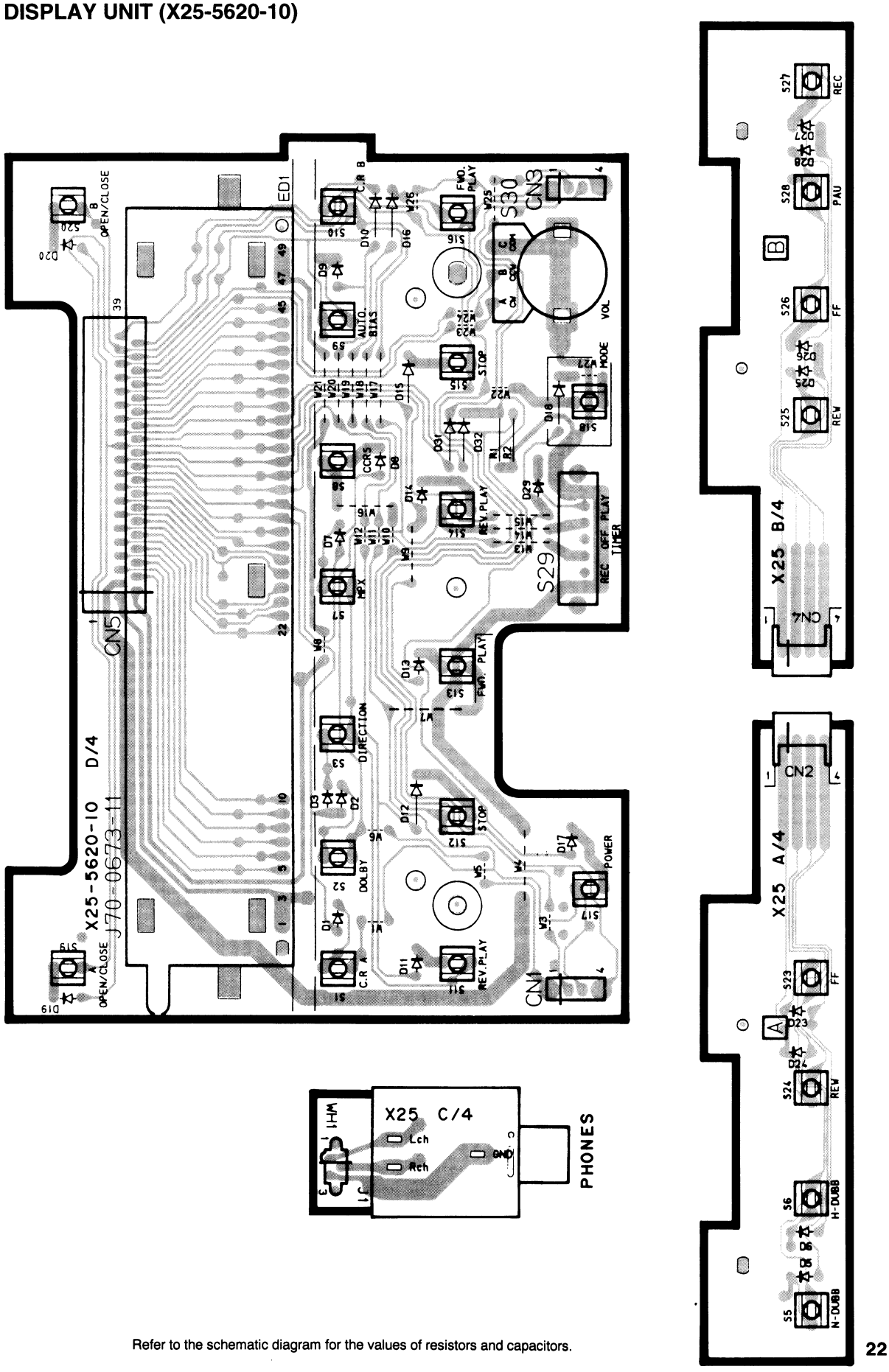
Cortocircuite PT ⑤ -▷|- ④ (y conecte la ulimenlación. Tecla FF : Alta velocidad. Tecla FEW : Velocidad normal


(X28-) (B/4)
W89 (W400) W401 W402 W403 (W404) W405 W406 W407 W408 W409 W410 W411 W412 W413 W414 W415 (W416) (W417) (W418) (W419) (W420) W421 W422 W423 W424 W425 W426 W427 W428 W429 W430 W431 W432 W433 W434 W435 (W436) (W437) W438 W439 W440 W441 W442 W443 W444 W283
W317 W320 W327 W330 W333 (W338) W342 W343 W345 W346
MECHA A
(D40-1394-*5)
CONTROL
MOTOR
HEAD
CN4
CN6
CN1
CN2
MECHA B
(D40-1395-*5)
CN5
CN7
HEADPHONE
(X25-) (C/4)
J1
WH1
CN3
RECORD/PLAYBACK UNIT
(X28-) (A/4)
J1
REC LINE IN
PLAY LINE OUT
J2
SYSTEM CONTROL
(K,P,X,T,E,G,R) TYPE
(X28-) (C/4)
WH1
CN8
POWER TRANSFORMER L07-1856-*5
(M,Y) TYPE
(X28-) (C/4)
(X28-) (D/4)
WH2 GRN
WH3 WHT
WH4 RED
S1
110v
120v
220v
240v
115v
230v
POWER TRANSFORMER L07-1857-*5
CN9
FLAT CABLE E35-1042-*5
CN5
DISPLAY UNIT
(X25-) (D/4)
(X25-) (B/4)
CN4
CN3
CN1
CN2
(X25-) (A/4)

KX-W8070S(K)

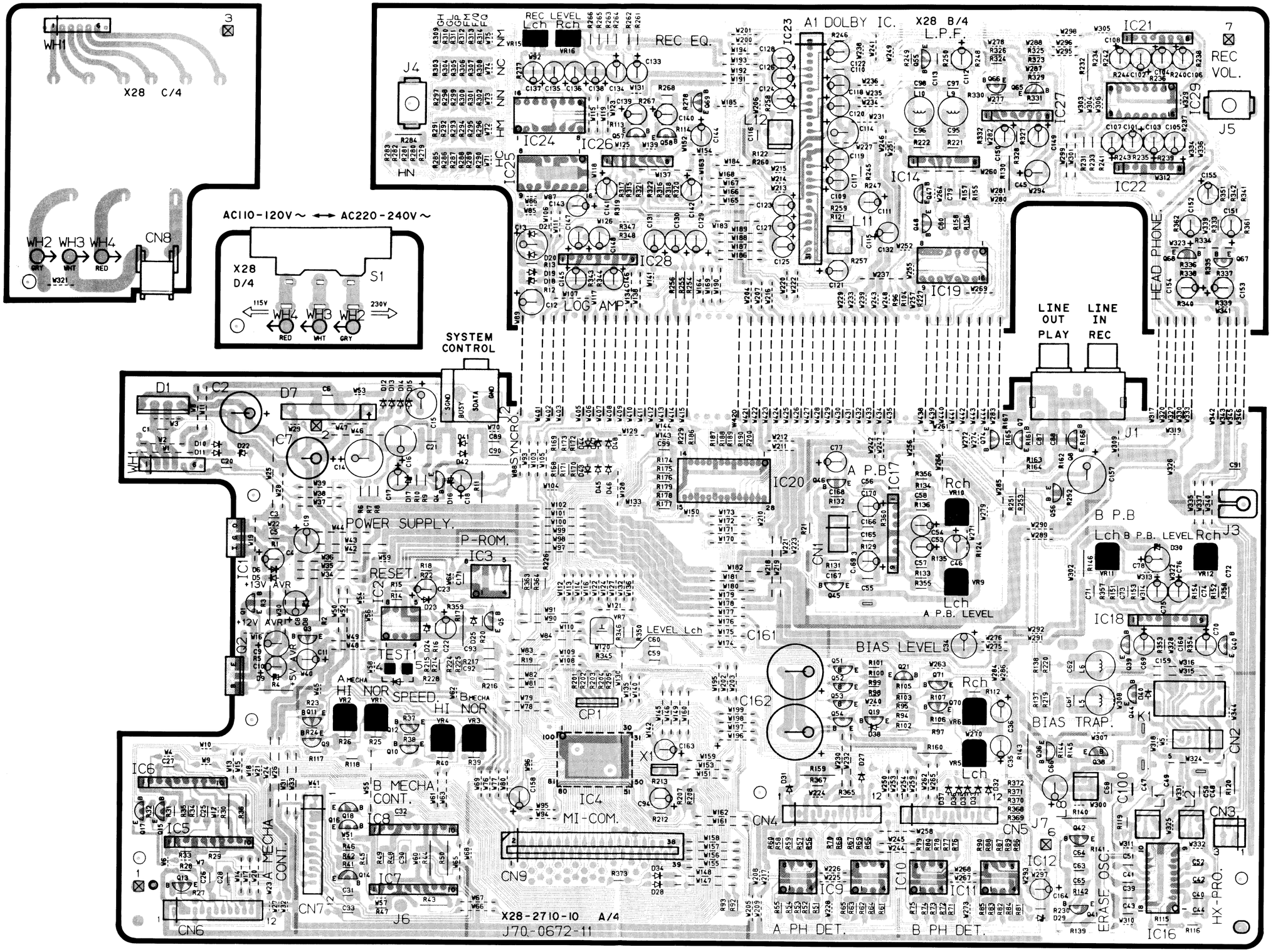
PC BOARD (Component side view)

DISPLAY UNIT (X25-5620-10)

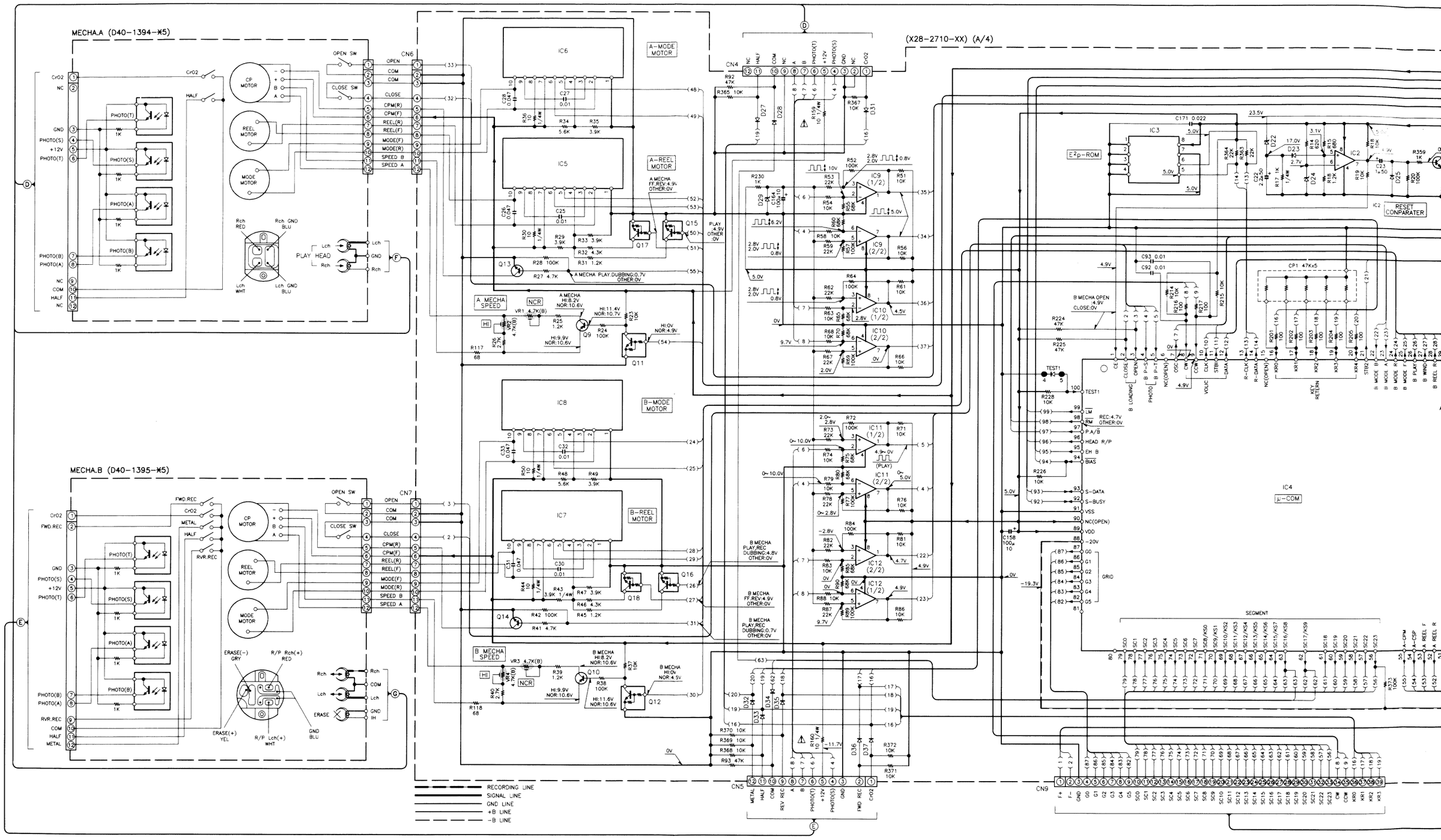


Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Component side view) RECORD/PLAYBACK UNIT (X28-2710-XX)



Refer to the schematic diagram for the values of resistors and capacitors.



Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

DC voltages are as measured with a high impedanc
a cassette loaded at playback mode. Values may v
to variations between individual instruments or/a
circuit DC voltages are as measured while in the re

(X28-2710-XX) (A/4)

IC1 : BA17812T or μPC7812AHF
IC2,9~12 : BA10393
IC3 : XL24C01AP
IC4 : CXP82440-109Q
IC5,7 : BA6229
IC6,8 : BA6209N
IC16 : μPC1297CA
IC17,18 : TA8125S
IC20 : TC9164N

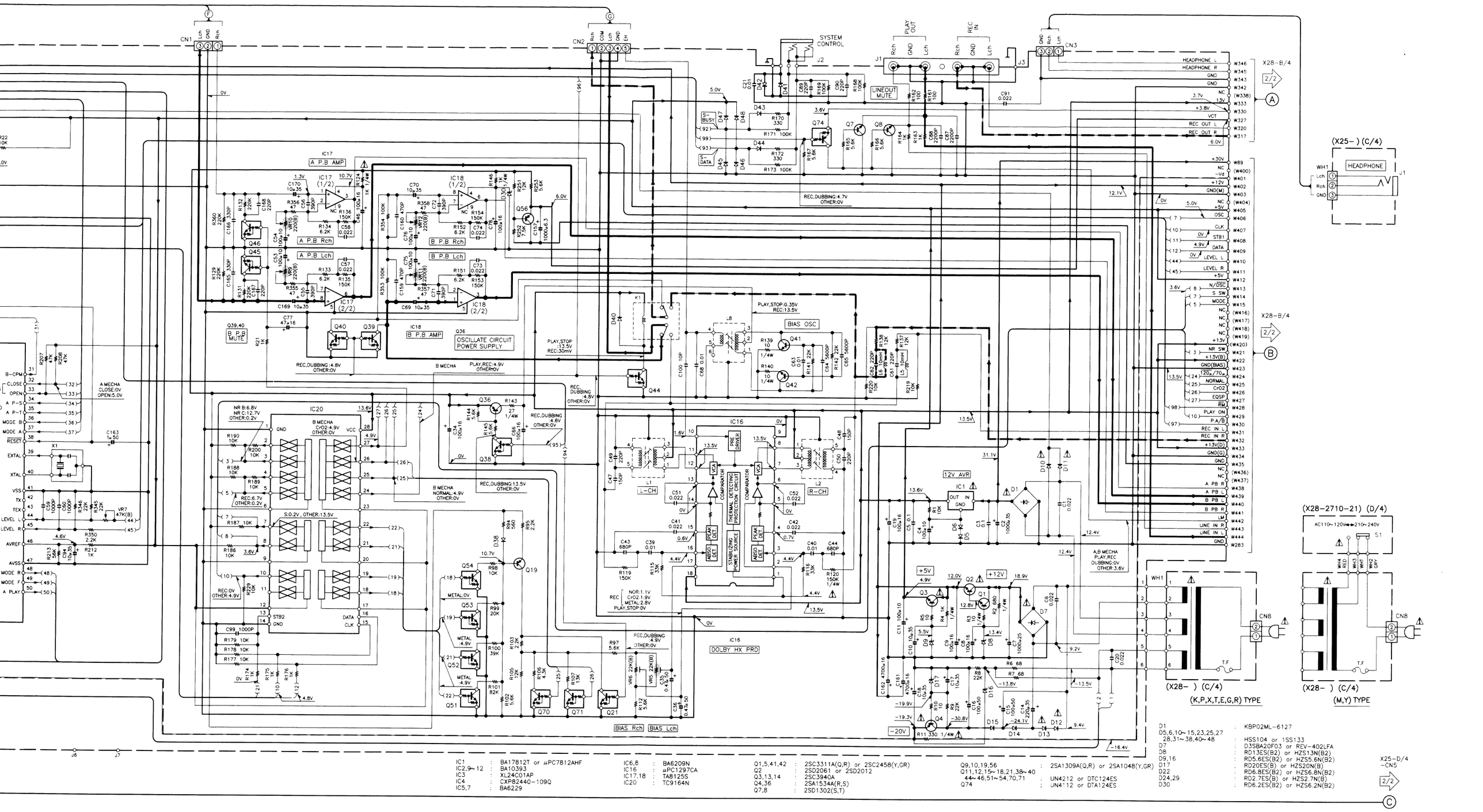
Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une casette ètant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vomagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

CAUTION: For contin
ponents only with ma
to parts list). ⚠ in
reduce the risk of elec
measurements shall b
ably insulated from th
returned to the custo



eter with
ghtly due
s. Bias
node.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une casette ètant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

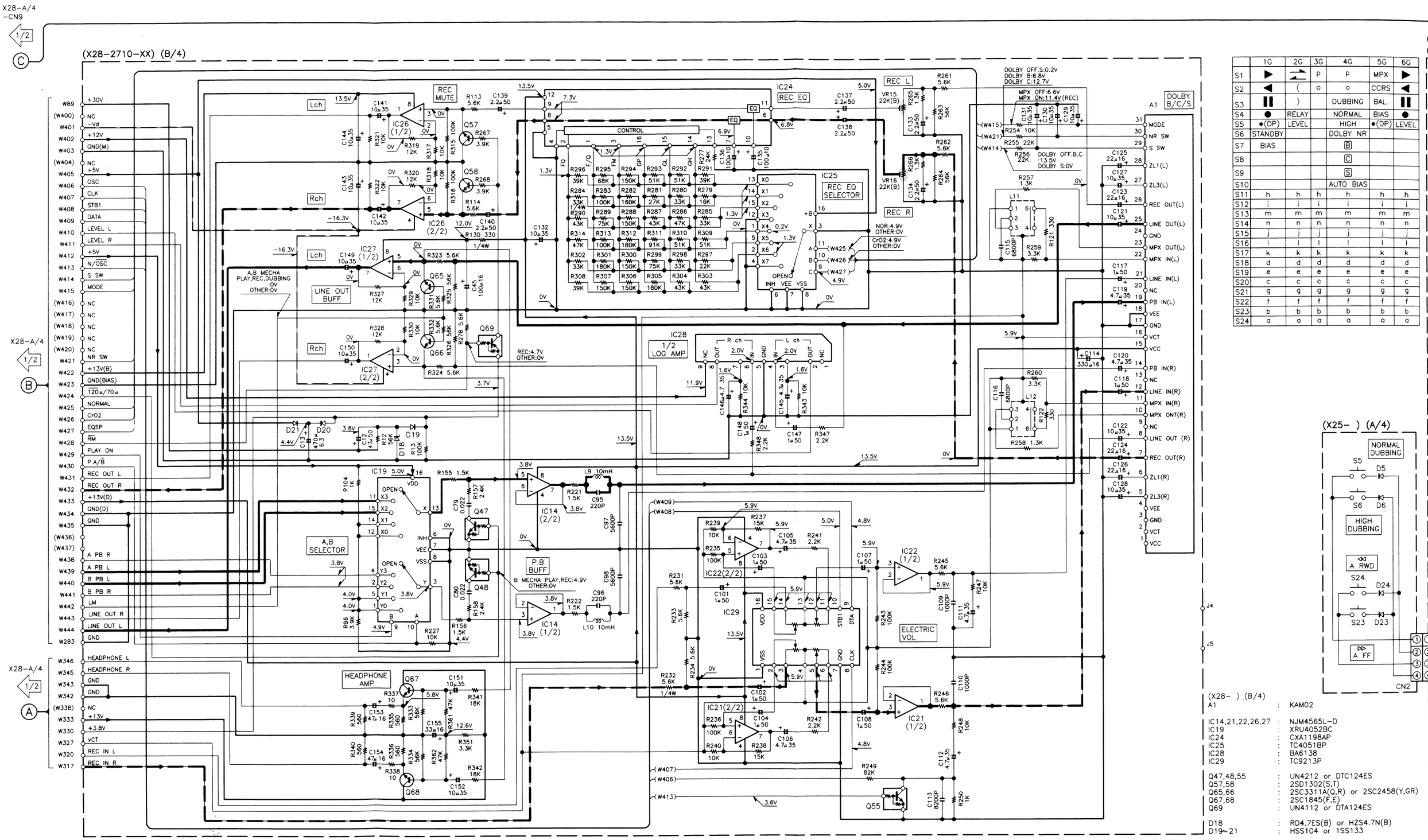
Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vomagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y26-3960-10

KX-W8070S

KENWOOD



	1G	2G	3G	4G	5G	6G
S1	▶	⇄	P	P	MPX	▶
S2	◀	(	o	o	CCRS	◀
S3	⏸	)		DUBBING	BAL.	⏸
S4	●	RELAY		NORMAL	BIAS	●
S5	•(DP)	LEVEL		HIGH	•(DP)	LEVEL
S6	STANDBY			DOLBY NR		
S7	BIAS			B		
S8				C		
S9				S		
S10				AUTO BIAS		
S11	h	h	h	h	h	h
S12	i	i	i	i	i	i
S13	m	m	m	m	m	m
S14	n	n	n	n	n	n
S15	j	j	j	j	j	j
S16	l	l	l	l	l	l
S17	k	k	k	k	k	k
S18	d	d	d	d	d	d
S19	e	e	e	e	e	e
S20	c	c	c	c	c	c
S21	g	g	g	g	g	g
S22	f	f	f	f	f	f
S23	b	b	b	b	b	b
S24	a	a	a	a	a	a

(X28-) (B/4)

A1	:	KAM02
IC14,21,22,26,27	:	NJM4565L-D
IC19	:	XRU4052BC
IC24	:	CXA1198AP
IC25	:	TC4051BP
IC28	:	BA6138
IC29	:	TC9213P
Q47,48,55	:	UN4212 or DTC124ES
Q57,58	:	2SD1302(S,T)
Q65,66	:	2SC3311A(Q,R) or 2SC2458(Y,GR)
Q67,68	:	2SC1845(F,E)
Q69	:	UN4112 or DTA124ES
D18	:	RD4.7ES(B) or HZS4.7N(B)
D19~21	:	HSS104 or 1SS133

	1G	2G	3G	4G	5G	6G
S1	▶	⇄	p	p	MPX	▶
S2	◀	(	o	o	CCRS	◀
S3	⏸	)		DUBBING	BAL.	⏸
S4	●	RELAY		NORMAL	BIAS	●
S5	•(DP)	LEVEL		HIGH	•(DP)	LEVEL
S6	STANDBY			DOLBY NR		
S7	BIAS			B		
S8				C		
S9				S		
S10				AUTO BIAS		
S11	h	h	h	h	h	h
S12	i	i	i	i	i	i
S13	m	m	m	m	m	m
S14	n	n	n	n	n	n
S15	j	j	j	j	j	j
S16	l	l	l	l	l	l
S17	k	k	k	k	k	k
S18	d	d	d	d	d	d
S19	e	e	e	e	e	e
S20	c	c	c	c	c	c
S21	g	g	g	g	g	g
S22	f	f	f	f	f	f
S23	b	b	b	b	b	b
S24	a	a	a	a	a	a

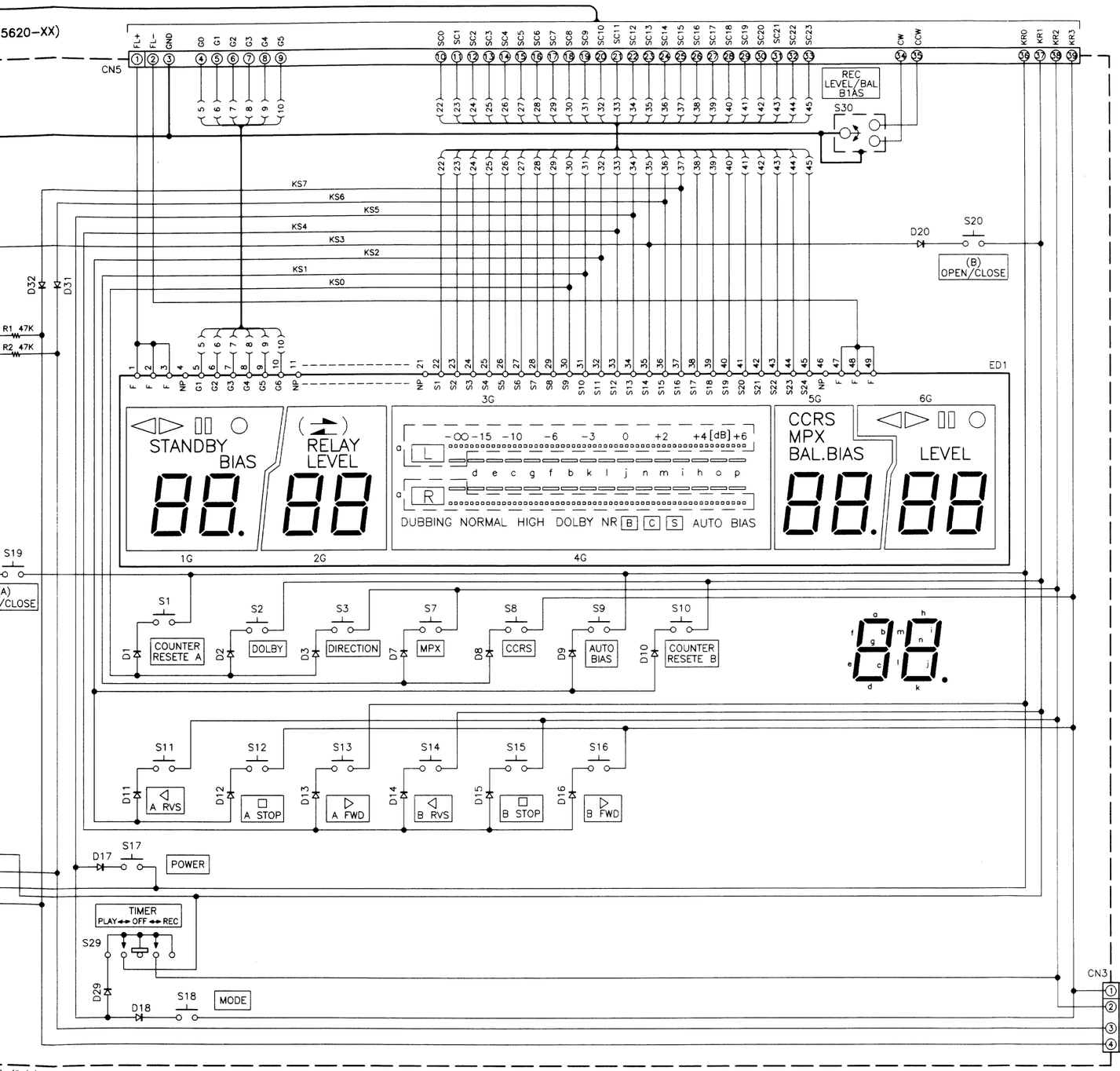
(X28-) (B/4)

A1	:	KAM02
IC14,21,22,26,27	:	NJM4565L-D
IC19	:	XRU4052BC
IC24	:	CXA1198AP
IC25	:	TC4051BP
IC28	:	BA6138
IC29	:	TC9213P
Q47,48,55	:	UN4212 or DTC124ES
Q57,58	:	2SD1302(S,T)
Q65,66	:	2SC3311A(Q,R) or 2SC2458(Y,GR)
Q67,68	:	2SC1845(F,E)
Q69	:	UN4112 or DTA124ES
D18	:	RD4.7ES(B) or HZS4.7N(B)
D19~21	:	HSS104 or 1SS133

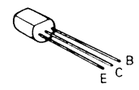
(X25-) (D/4)

D1~3,5~20,23~29,31,32	:	HSS104 or 1SS133
ED1	:	FIP6AMW6

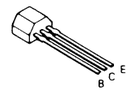
RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
-B LINE



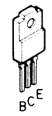
2SA1534A
2SC1845
2SC3940A
2SD1302



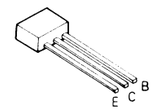
DTA124ES
DTC124ES
UN4112
2SA1048
2SC2458



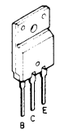
2SD2061



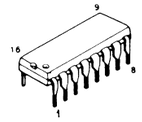
UN4212
2SA1309A
2SC3311A



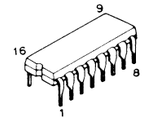
2SD2012



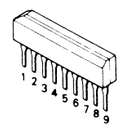
CXA1198AP
XRU4052BC



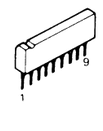
TC4051BP
TC9213P



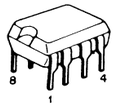
TA8125S



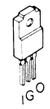
BA6138



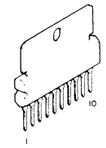
BA10393
XL24C01AP



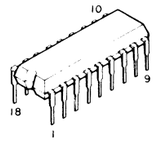
BA17812T
UPC7812AHF



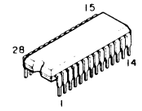
BA6229



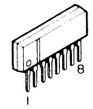
UPC1297CA



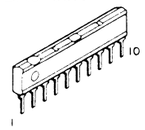
TC9164N



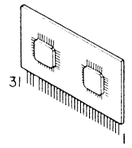
NJM4565L-D



BA6209N



KAM02



DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une casette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vomagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

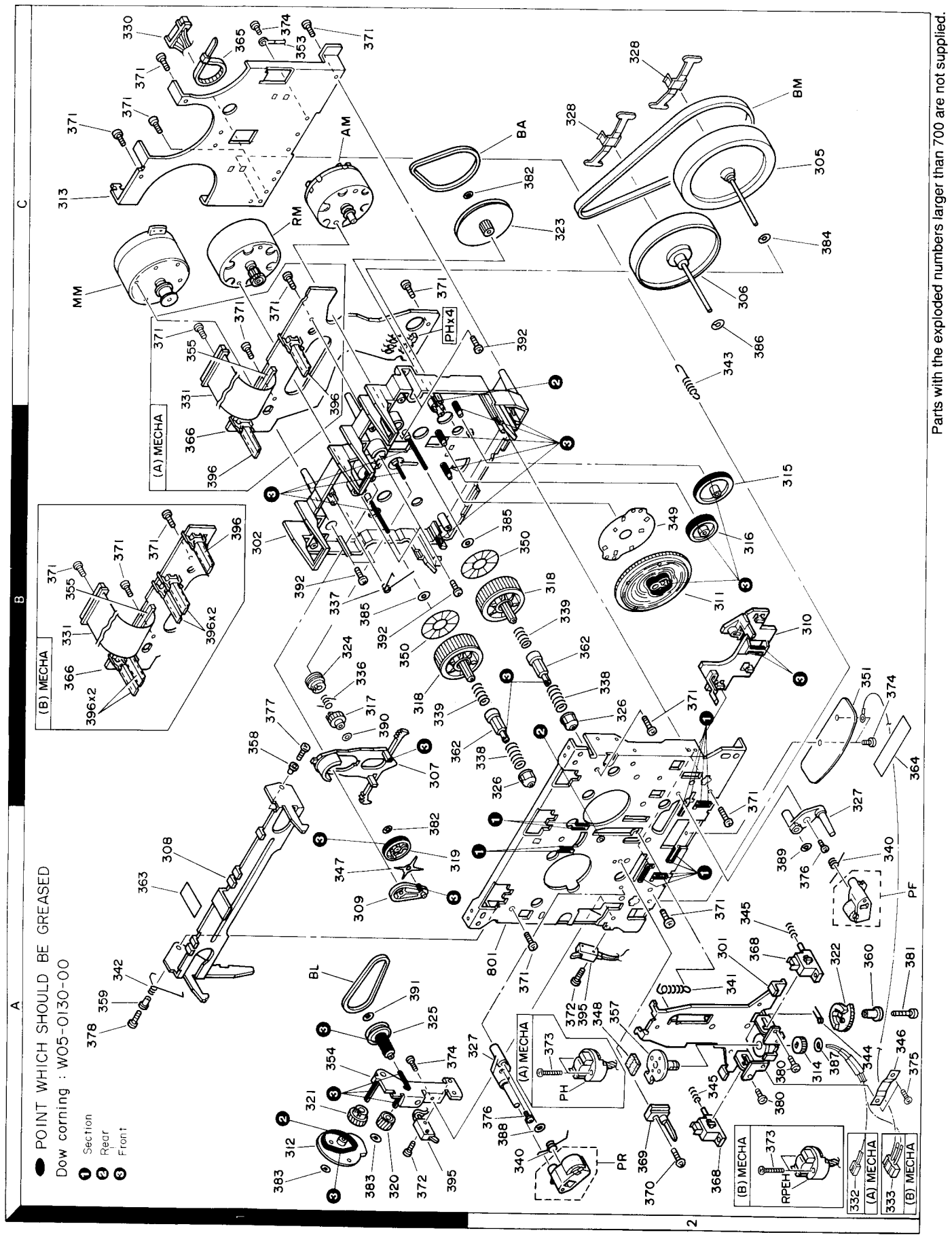
Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen. "DOLBY", the double-D symbol and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Y26-3960-10

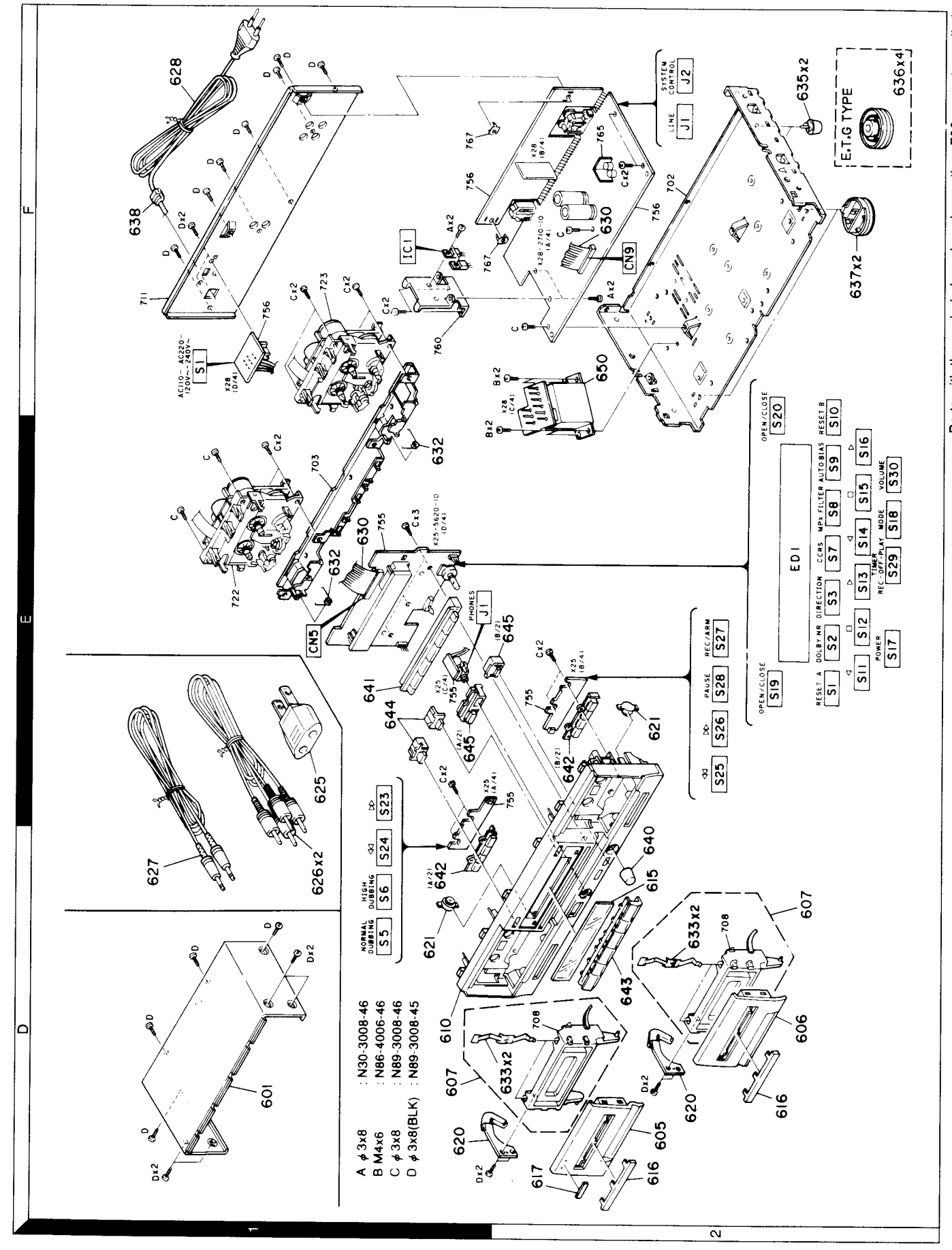
KX-W8070S

KENWOOD

EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)


ED1
A ϕ 3x8 : N30-3008-46
B M4x6 : N86-4006-46
C ϕ 3x8 : N89-3008-46
D ϕ 3x8(BLK) : N89-3008-45
Parts with the exploded numbers larger than 700 are not supplied.

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KX-W8070S						
601	1D	*	A01-3196-11	METALLIC CABINET		
605	2D	*	A53-1841-12	CASSETTE LID		A
606	2D	*	A53-1842-12	CASSETTE LID		B
607	1D	*	A53-1843-13	CASSETTE HOLDER ASSY		
610	1D	*	A60-0664-01	PANEL		
615	2D		B03-2926-03	DRESSING PLATE		
616	2D		B10-2072-14	FRONT GLASS		
617	2D		B43-0287-04	KENWOOD BADGE		
-		*	B46-0092-43	WARRANTY CARD	KY	
-		*	B46-0096-53	WARRANTY CARD	X	
-			B46-0121-33	WARRANTY CARD	P	
-			B46-0197-00	QUESTIONAIRE CARD	KR	
-			B46-0310-03	WARRANTY CARD	TEG	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-			B58-0945-03	CAUTION CARD	T	
-		*	B58-0964-13	CAUTION CARD (UL)	KYR	
-		*	B58-0965-13	CAUTION CARD (T,X)	XT	
-		*	B58-0966-13	CAUTION CARD (ELM)	ME	
-		*	B58-0967-03	CAUTION CARD	P	
-		*	B58-0970-13	CAUTION CARD	GR	
-		*	B59-1104-00	SERVICE DIRECTORY	Y	
-			B60-1903-00	INSTRUCTION MANUAL (ENGLISH)	KPYMXT	
-			B60-1903-00	INSTRUCTION MANUAL (ENGLISH)	ER	
-			B60-1904-00	INSTRUCTION MANUAL (FRENCH))	PE	
-			B60-1905-00	INSTRUCTION MANUAL (CHINESE)	M	
-			B60-1906-00	INSTRUCTION MANUAL (SPANISH)	MER	
-			B60-1907-00	INSTRUCTION MANUAL (DUT,ITA)	E	
-			B60-2128-00	INSTRUCTION MANUAL (GERMANY)	EG	
-			B60-2130-00	INSTRUCTION MANUAL (TAIWANESE)	M	
620	1D,2D	*	D10-3515-04	ARM		
621	1D,2E		D39-0200-05	DAMPER		
⚠ 625	1E		E03-0115-05	AC PLUG ADAPTER	M	
626	1D		E30-0505-05	AUDIO CORD		
627	1D		E30-2733-05	CORD WITH PLUG		
⚠ 628	1F		E30-2787-05	AC POWER CORD	KPR	
⚠ 628	1F		E30-2788-05	AC POWER CORD	MEG	
⚠ 628	1F		E30-2789-05	AC POWER CORD	Y	
⚠ 628	1F		E30-2790-05	AC POWER CORD	X	
⚠ 628	1F		E30-2791-05	AC POWER CORD	T	
630	1E,2F		E35-1042-05	FLAT CABLE (39PIN FFC)		
632	1E	*	G01-3749-04	TORSION COIL SPRING		
633	2D		G02-1057-14	FLAT SPRING		
-			H10-5923-02	POLYSTYRENE FOAMED FIXTURE(L)	KPYMXE	H
-			H10-5923-02	POLYSTYRENE FOAMED FIXTURE(L)	GR	H
-			H10-5924-02	POLYSTYRENE FOAMED FIXTURE(R)	KPYMXE	H
-			H10-5924-02	POLYSTYRENE FOAMED FIXTURE(R)	GR	H
-			H10-5925-02	POLYSTYRENE FOAMED FIXTURE(L)	T	H
-			H10-5926-02	POLYSTYRENE FOAMED FIXTURE(R)	T	H
-			H10-5972-02	POLYSTYRENE FOAMED FIXTURE(L)	MR	J
-			H10-5973-02	POLYSTYRENE FOAMED FIXTURE(R)	MR	J
-			H13-0190-04	CARTON BOARD	X	
-			H20-0586-04	PROTECTION COVER	M	

L: Scandinavia **K**: USA **P**: Canada **R**: Mexico **H**: CHINA MADE
Y: PX (Far East, Hawaii) **T**: England **E**: Europe **G**: Germany **J**: JAPAN MADE
Y: AAFES (Europe) **X**: Australia **M**: Other Areas

⚠ indicates safety critical components

DISPLAY UNIT

UNIT NO.	Description
X25-5620-10	

REC/PLAY UNIT

UNIT NO.	Description
X28-2710-10	KH, PH, XH, TH, EH, GH, RH
X28-2710-21	YH, MH

MECNANISM ASSY

UNIT NO.	Description
D40-1394-05	A DECK
D40-1395-05	B DECK

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Telle ohne Parts No. werden nicht geliefert.

No.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-		*	H21-0314-04	PROTECTION SHEET		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	GR	
-			H25-0382-04	PROTECTION BAG	KPYXTE	
-			H25-0382-04	PROTECTION BAG	GR	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-		*	H50-1325-14	ITEM CARTON CASE	KPYXEG	H
-		*	H50-1325-14	ITEM CARTON CASE	R	H
-		*	H50-1326-14	ITEM CARTON CASE	M	H
-		*	H50-1327-14	ITEM CARTON CASE	T	H
-		*	H50-1411-14	ITEM CARTON CASE	MR	J
635	2F		J02-0366-15	FOOT (REAR)	KPYMXR	
636	2F		J02-1024-05	FOOT (FRONT,REAR)	TEG	
637	2F		J02-1040-05	FOOT (FRONT)	KPYMXR	
⚠ 638	1F		J42-0083-05	POWER CORD BUSHING		
640	2D		K29-5828-04	KNOB (REC LEVEL)		
641	1E		K29-6048-03	KNOB (DOLBY,CCRS)		
642	1D,2E		K29-6049-03	KNOB (DUBB,REW,FF,REC/ARM)		
643	2D	*	K29-6050-13	KNOB (RVS,STOP,FEW)		
644	1E	*	K29-6051-04	KNOB (EJECT)		
645	1E,2E		K29-6052-03	KNOB (POWER,MODE)		
⚠ 650	2F	*	L07-1856-05	POWER TRANSFORMER	KPR	
⚠ 650	2F	*	L07-1857-05	POWER TRANSFORMER	YM	
⚠ 650	2F	*	L07-1858-05	POWER TRANSFORMER	XTEG	
DISPLAY UNIT (X25-5620-10)						
CN5	1E		E40-4219-05	FLAT CABLE CONNCTOR		
J1	1E		E11-0208-05	PHONE JACK		
S1 -3			S70-0031-05	TACT SWITCH		
S5 -20			S70-0031-05	TACT SWITCH		
S23 -28			S70-0031-05	TACT SWITCH		
S29			S31-1036-05	SLIDE SWITCH		
S30			T99-0546-05	ROTARY ENCODER		
D1 -3			HSS104	DIODE		
D1 -3			1SS133	DIODE		
D5 -20			HSS104	DIODE		
D5 -20			1SS133	DIODE		
D23 -29			HSS104	DIODE		
D23 -29			1SS133	DIODE		
D31 ,32			HSS104	DIODE		
D31 ,32			1SS133	DIODE		
ED1			FIP6AMW6	INDICATOR TUBE		
RECORD/PLAYBACK UNIT (X28-2710-XX)						
C1			CK45FF1H223Z	CERAMIC 0.022UF Z		
C2			CE04LW1V102M	ELECTRO 1000UF 35WV		
C3			CQ93FMG1H104J	MYLAR 0.10UF J		
C4			CE04LW1A101M	ELECTRO 100UF 10WV		
C5			CQ93FMG1H104J	MYLAR 0.10UF J		
C6			CK45FF1H223Z	CERAMIC 0.022UF Z		
C7			CE04LW1E102M	ELECTRO 1000UF 25WV		
C8 ,9			CE04LW1C101M	ELECTRO 100UF 16WV		
C10			CE04LW1V100M	ELECTRO 10UF 35WV		
C11			CE04LW1A101M	ELECTRO 100UF 10WV		

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No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C12			CE04LW1H470M	ELECTRO 47UF 50WV		
C13			CE04LW0J471M	ELECTRO 470UF 6.3WV		
C14			CE04LW1V221M	ELECTRO 220UF 35WV		
C15 ,16			CE04LW1H101M	ELECTRO 100UF 50WV		
C17 ,18			CE04LW1V100M	ELECTRO 10UF 35WV		
C19			CE04LW1C101M	ELECTRO 100UF 16WV		
C20			CK45FF1H223Z	CERAMIC 0.022UF Z		
C21			CK45FF1H103Z	CERAMIC 0.010UF Z		
C22			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C23			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C25			CK45FF1H103Z	CERAMIC 0.010UF Z		
C26			CQ93FMG1H473J	MYLAR 0.047UF J		
C27			CK45FF1H103Z	CERAMIC 0.010UF Z		
C28			CQ93FMG1H473J	MYLAR 0.047UF J		
C30			CK45FF1H103Z	CERAMIC 0.010UF Z		
C31			CQ93FMG1H473J	MYLAR 0.047UF J		
C32			CK45FF1H103Z	CERAMIC 0.010UF Z		
C33			CQ93FMG1H473J	MYLAR 0.047UF J		
C34			CE04LW1C101M	ELECTRO 100UF 16WV		
C35 ,36			CE04LW1HR47M	ELECTRO 0.47UF 50WV		
C39 ,40			CK45FF1H103Z	CERAMIC 0.010UF Z		
C41 ,42			CK45FF1H223Z	CERAMIC 0.022UF Z		
C43 ,44			CK45FB1H681K	CERAMIC 680PF K		
C45 ,46			CE04LW1C101M	ELECTRO 100UF 16WV		
C47 ,48			C91-1434-05	FILM 150PF J		
C49 ,50			C91-1436-05	FILM 220PF J		
C51 ,52			CK45FF1H223Z	CERAMIC 0.022UF Z		
C53 ,54			CE04LW1A101M	ELECTRO 100UF 10WV		
C55 ,56			CK45FB1H391K	CERAMIC 390PF K		
C57 ,58			CQ93FMG1H223J	MYLAR 0.022UF J		
C59 ,60			CK45FB1H102K	CERAMIC 1000PF K		
C61 ,62			CC45FSL1H221J	CERAMIC 220PF J		
C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
C64 ,65			CQ93FMG1H562J	MYLAR 5600PF J		
C66			CE04LW1C101M	ELECTRO 100UF 16WV		
C68			CQ93HP2A103J	MYLAR 0.010UF J		
C69 ,70			CE04LW1V100M	ELECTRO 10UF 35WV		
C71 ,72			CK45FB1H391K	CERAMIC 390PF K		
C73 ,74			CQ93FMG1H223J	MYLAR 0.022UF J		
C75 ,76			CE04LW1A101M	ELECTRO 100UF 10WV		
C77			CE04LW1C470M	ELECTRO 47UF 16WV		
C78			CE04LW1C101M	ELECTRO 100UF 16WV		
C79 ,80			CQ93FMG1H223J	MYLAR 0.022UF J		
C87 ,88			CK45FB1H222K	CERAMIC 2200PF K		
C89 ,90			CC45FSL1H221J	CERAMIC 220PF J		
C91			CK45FF1H223Z	CERAMIC 0.022UF Z		
C92 ,93			CK45FF1H103Z	CERAMIC 0.010UF Z		
C94			CE04LW1V100M	ELECTRO 10UF 35WV		
C95 ,96			CC45FSL1H221J	CERAMIC 220PF J		
C97 ,98			CQ93FMG1H562J	MYLAR 5600PF J		
C99			CK45FB1H102K	CERAMIC 1000PF K		
C100			CC45FSL2H100D	CERAMIC 10PF D		
C101-104			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C105,106			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C107,108			CE04LW1H010M	ELECTRO 1.0UF 50WV		

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No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C109,110			CK45FB1H102K	CERAMIC 1000PF K		
C111,112			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C113		＊	CQ93FMG1H822J	MYLAR 8200PF J		
C114			CE04LW1C331M	ELECTRO 330UF 16WV		
C115,116			CK45FB1H682K	CERAMIC 6800PF K		
C117,118			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C119,120			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C121,122			CE04LW1V100M	ELECTRO 10UF 35WV		
C123-126			CE04LW1C220M	ELECTRO 22UF 16WV		
C127-132			CE04LW1V100M	ELECTRO 10UF 35WV		
C133,134			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C135,136			CE04LW1A101M	ELECTRO 100UF 10WV		
C137-140			CE04LW1H2R2M	ELECTRO 2.2UF 50WV		
C141-144			CE04LW1V100M	ELECTRO 10UF 35WV		
C145,146			CE04LW1V4R7M	ELECTRO 4.7UF 35WV		
C147,148			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C149-152			CE04LW1V100M	ELECTRO 10UF 35WV		
C153,154			CE04LW1C470M	ELECTRO 47UF 16WV		
C155			CE04LW1C330M	ELECTRO 33UF 16WV		
C157			CE04EW0J102M	ELECTRO 1000UF 6.3WV		
C158			CE04LW1A101M	ELECTRO 100UF 10WV		
C159,160			CK45FB1H471K	CERAMIC 470PF K		
C161,162			CE04LW1C472M	ELECTRO 4700UF 16WV		
C163			CE04LW1H010M	ELECTRO 1.0UF 50WV		
C164			CE04LW1A101M	ELECTRO 100UF 10WV		
C165,166			CC45FSL1H331J	CERAMIC 330PF J		
C167,168			CC45FSL1H221J	CERAMIC 220PF J		
C169,170			CE04LW1V100M	ELECTRO 10UF 35WV		
C171			CK45FF1H223Z	CERAMIC 0.022UF Z		
CN9	2F		E40-4179-05	FLAT CABLE CONNCTOR		
J1	2F		E63-0046-15	PHONO JACK (4P)		J
J1	2F		E63-0136-05	PHONO JACK (4P)		H
J2	2F		E11-0188-05	MINIATURE PHONE JACK(2P ﾀﾃ)		
L1 ,2			L32-0547-05	BIAS OSCILATING COIL		
L5 ,6			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L8			L32-0554-05	BIAS OSCILATING COIL		
L9 ,10			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L11 ,12			L79-1201-05	LC FILTER		
X1			L78-0294-05	RESONATOR (10.000M)		
CP1			R90-0818-05	MULTI-COMP 47KX5 J 1/6W		
R2			RD14NB2E681J	RD 680 J 1/4W		
R3			RD14NB2E100J	RD 10 J 1/4W		
R4			RD14NB2E102J	RD 1.0K J 1/4W		
⚠ R11			RD14NB2E331J	RD 330 J 1/4W		
R17			RD14NB2E102J	RD 1.0K J 1/4W		
R30			RD14NB2E100J	RD 10 J 1/4W		
R36			RD14NB2E100J	RD 10 J 1/4W		
R44			RD14NB2E100J	RD 10 J 1/4W		
R50			RD14NB2E100J	RD 10 J 1/4W		
R130			RD14NB2E331J	RD 330 J 1/4W		
R139,140			RD14NB2E100J	RD 10 J 1/4W		
R143		＊	RD14NB2E270J	RD 27 J 1/4W		

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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R159,160			RD14NB2E100J	RD 10 J 1/4W		
VR1 -4			R12-1619-05	TRIMMING POT.(4.7K ﾌﾞ)		
VR5 ,6			R12-3686-05	TRIMMING POT.(22K ﾌﾞ)		
VR7			R12-1619-05	TRIMMING POT.(4.7K ﾌﾞ)		
VR9 -12			R12-0605-05	TRIMMING POT.(220 ﾌﾞ)		
VR15,16			R12-3129-05	TRIMMING POT.(22K,ﾀﾃ)		
K1			S76-0018-05	MAGNETIC RELAY		
⚠ S1			S31-2131-05	SLIDE SWITCH (POWER TYPE)	YM	
A1			KAM02	HYBRID IC		
⚠ D1			KBP02ML-6127	DIODE		
D5 ,6			HSS104	DIODE		
D5 ,6			1SS133	DIODE		
⚠ D7			D3SBA20F03	DIODE		
⚠ D7			RBV-402LFA	DIODE		
D8			HZS13N(B2)	ZENER DIODE		
D8			RD13ES(B2)	ZENER DIODE		
D9			HZS5.6N(B2)	ZENER DIODE		
D9			RD5.6ES(B2)	ZENER DIODE		
⚠ D10 -15			HSS104	DIODE		
⚠ D10 -15			1SS133	DIODE		
D16			HZS5.6N(B2)	ZENER DIODE		
D16			RD5.6ES(B2)	ZENER DIODE		
D17			HZS20N(B)	ZENER DIODE		
D17			RD20ES(B)	ZENER DIODE		
D18			HZS4.7N(B)	ZENER DIODE		
D18			RD4.7ES(B)	ZENER DIODE		
D19 -21			HSS104	DIODE		
D19 -21			1SS133	DIODE		
D22			HZS6.8N(B2)	ZENER DIODE		
D22			RD6.8ES(B2)	ZENER DIODE		
D23			HSS104	DIODE		
D23			1SS133	DIODE		
D24			HZS2.7N(B)	ZENER DIODE		
D24			RD2.7ES(B)	ZENER DIODE		
D25			HSS104	DIODE		
D25			1SS133	DIODE		
D27 ,28			HSS104	DIODE		
D27 ,28			1SS133	DIODE		
D29			HZS2.7N(B)	ZENER DIODE		
D29			RD2.7ES(B)	ZENER DIODE		
D30			HZS6.2N(B2)	ZENER DIODE		
D30			RD6.2ES(B2)	ZENER DIODE		
D31 -38			HSS104	DIODE		
D31 -38			1SS133	DIODE		
D40 -48			HSS104	DIODE		
D40 -48			1SS133	DIODE		
⚠ IC1			BA17812T	IC(VOLTAGE REGULATOR/ +12V)		
⚠ IC1			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
IC2			BA10393	IC(DUAL COMPALATOR)		
IC3			XL24C01AP	MEMORY IC		
IC4		＊	CXP82440-109Q	MI-COM IC		
IC5			BA6229	IC(MOTOR DRIVER)		
IC6			BA6209N	IC(MOTOR DRIVER)		

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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
IC7			BA6229	IC(MOTOR DRIVER)		
IC8			BA6209N	IC(MOTOR DRIVER)		
IC9 -12			BA10393	IC(DUAL COMPALATOR)		
IC14			NJM4565L-D	IC(OP AMP X2)		
IC16			UPC1297CA	IC(DOL HX PRO SYSTEM)		
IC17,18			TA8125S	IC(2CH PRE AMP)		
IC19			XRU4052BC	MOS-IC		
IC20			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC21,22			NJM4565L-D	IC(OP AMP X2)		
IC24			CXA1198AP	IC(CASSETTE DECK REC EQUALIZER		
IC25			TC4051BP	IC(8CH MPX/ DE-MPX)		
IC26,27			NJM4565L-D	IC(OP AMP X2)		
IC28			BA6138	IC(ROOT AMP X2)		
IC29			TC9213P	IC(2CH ELECTRONIC VOLUME)		
Q1			2SC2458(Y,GR)	TRANSISTOR		
⚠ Q1			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q2			2SD2012	TRANSISTOR		
⚠ Q2			2SD2061	TRANSISTOR		
⚠ Q3			2SC3940A	TRANSISTOR		
⚠ Q4			2SA1534A(R,S)	TRANSISTOR		
Q5			2SC2458(Y,GR)	TRANSISTOR		
Q5			2SC3311A(Q,R)	TRANSISTOR		
Q7 ,8			2SD1302(S,T)	TRANSISTOR		
Q9 ,10			2SA1048(Y,GR)	TRANSISTOR		
Q9 ,10			2SA1309A(Q,R)	TRANSISTOR		
Q11 ,12			DTC124ES	DIGITAL TRANSISTOR		
Q11 ,12			UN4212	TRANSISTOR		
Q13 ,14			2SC3940A	TRANSISTOR		
Q15 -18			DTC124ES	DIGITAL TRANSISTOR		
Q15 -18			UN4212	TRANSISTOR		
Q19			2SA1048(Y,GR)	TRANSISTOR		
Q19			2SA1309A(Q,R)	TRANSISTOR		
Q21			DTC124ES	DIGITAL TRANSISTOR		
Q21			UN4212	TRANSISTOR		
Q36			2SA1534A(R,S)	TRANSISTOR		
Q38 -40			DTC124ES	DIGITAL TRANSISTOR		
Q38 -40			UN4212	TRANSISTOR		
Q41 ,42			2SC2458(Y,GR)	TRANSISTOR		
Q41 ,42			2SC3311A(Q,R)	TRANSISTOR		
Q44 -48			DTC124ES	DIGITAL TRANSISTOR		
Q44 -48			UN4212	TRANSISTOR		
Q51 -55			DTC124ES	DIGITAL TRANSISTOR		
Q51 -55			UN4212	TRANSISTOR		
Q56			2SA1048(Y,GR)	TRANSISTOR		
Q56			2SA1309A(Q,R)	TRANSISTOR		
Q57 ,58			2SD1302(S,T)	TRANSISTOR		
Q65 ,66			2SC2458(Y,GR)	TRANSISTOR		
Q65 ,66			2SC3311A(Q,R)	TRANSISTOR		
Q67 ,68			2SC1845(F,E)	TRANSISTOR		
Q69			DTA124ES	DIGITAL TRANSISTOR		
Q69			UN4112	TRANSISTOR		
Q70 ,71			DTC124ES	DIGITAL TRANSISTOR		
Q70 ,71			UN4212	TRANSISTOR		
Q74			DTA124ES	DIGITAL TRANSISTOR		
Q74			UN4112	TRANSISTOR		

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
MECHANISM ASSY (D40-139X-XX)						
301	2A	*	A10-3210-08	HEAD CHASSIS CALKED ASSY		
302	1B		A11-0769-08	BASE CHASSIS ASSY		
305	2C		D01-0158-08	FLYWHEEL ASSY RIGHT		
306	2C		D01-0148-08	FLYWHEEL ASSY LEFT		
307	1B		D10-3290-08	BRAKE ARM		
308	1A	*	D10-3575-08	EJECT LEVER		
309	1A		D10-3323-08	FRICTION ARM ASSY		
310	2B		D10-3356-08	RV LEVER		
311	2B		D12-0143-08	PLAY CAM GEAR		
312	1A		D12-0144-08	LOADING CAM GEAR		
313	1C		D12-0145-08	UNIT HOLDER		
314	2A		D13-0981-08	ROTATION GEAR		
315	2B		D13-1503-08	EXTENTION GEAR A		
316	2B		D13-1504-08	EXTENTION GEAR B		
317	1B		D13-1505-08	SELECT GEAR		
318	1B,2B		D13-1506-08	REEL GEAR		
319	1A		D13-1507-08	IDLE GEAR		
320	1A		D13-1509-08	HOLDER GEAR A		
321	1A		D13-1510-08	HOLDER GEAR B		
322	2A		D13-1511-08	RETURN GEAR		
323	2C		D15-0335-08	PULLEY GEAR (MB)		
324	1B		D15-0336-08	PULLEY (LA)		
325	1A		D15-0339-08	PULLEY GEAR		
326	2B		D19-0270-18	REEL CAP		
327	2B		D23-0278-08	HOUSING ASSY RIGHT		
327	2A		D23-0279-08	HOUSING ASSY LEFT		
328	2C		D23-0303-08	CAPSTAN SPACER		
330	1C		E35-1152-08	CONNECTOR WIRE 12P		B
330	1C	*	E35-1153-08	CONNECTOR WIRE 12P		A
331	1C	*	E35-0911-08	FLAT WIRE 12P		B
331	1C	*	E35-1151-08	FLAT WIRE 12P		A
332	2A	*	E35-1005-08	HEAD WIRE 3P PLAYBACK		A
333	2A	*	E35-1006-08	HEAD WIER 5P REC/PLAY/ERA		B
336	1B		G01-3521-08	PULLEY GEAR SPRING		
337	1B		G01-3522-08	BRAKE ARM SPRING		
338	2B		G01-3523-08	REEL SPRING		
339	1B,2B		G01-3524-08	BACK TENTION SPRING		
340	2A		G01-3525-08	PINCH ROLLER SPRING RIGHT		
340	2A		G01-3555-08	PINCH ROLLER SPRING LEFT		
341	2A		G01-3527-08	HEAD SHASSIS SPRING		
342	1A		G01-3528-08	EJECT LEVER SPRING		
343	2C		G01-3529-08	EARTH SPRING		
344	2A		G01-3556-08	RETURN SPRING		
345	2A		G01-3557-08	TAPE GUIDE SPRING		
346	2A		G02-0994-08	AZIMUTH SPRING		
347	1A		G02-1006-08	FRICTION SPRING		
348	2A		G11-2117-08	HEAD WIRE CLAMPER		
349	2B		G16-0790-08	MODE REFLECTOR		
350	1B,2B		G16-0791-81	REFLECTOR SEAL		
351	2B		G16-0809-08	SHIEET		
353	1C		J11-0192-08	CORD CLAMPER		
354	1A		J19-3521-08	LOADING HOLDER ASSY		
355	1C		J19-3550-08	LEAD HOLDER		

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A:A DECK
B:B DECK

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No.8

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
357	2A		J21-5909-08	HEAD PLATE ASSY		
358	1B		J31-0853-08	EJECT LEVER COLLAR RIGHT		
359	1A		J31-0854-08	EJECT LEVER COLLAR LEFT		
360	2A		J31-0857-08	HEAD COLLAR		
362	1B,2B		J42-0191-08	REEL BUSH		
363	1A		J60-0022-08	ACETATE TAPE 9X20		
364	2A		J60-0024-08	ACETATE TAPE 8X36		
365	1C		J61-0095-08	WIRE CLAMPER		
366	1B		J70-0320-08	MECHANISM CONTROL PCB		
368	2A		J90-0689-08	TAPE GUIDE		
369	2A		J90-0695-08	CASSETTE GUIDE (B)		
370	2A		N09-1497-08	TAP TITE SCREW M2X5		
371	2A,1C		N09-2871-08	TAPPING SCREW M2X6		
372	1A,2A		N09-2872-08	TAPPING SCREW M1.7X8		
373	2A		N09-2986-08	HEAD SCREW		
374	1A,2A		N09-2877-08	TAP TITE SCREW M2X4		
375	2A		N09-2951-08	AZIMUTH SCREW		
376	2A		N09-2962-08	BIND TAPTITE S M2.6X6		
377	1B		N09-2963-08	TAP TITE SCREW M2X6		
378	1A		N09-2966-08	TAP TITE SCREW M2X9		
379	2A		N09-2987-08	TAPPING SCREW M2X4		
380	2A		N09-2989-08	TAPE GUIDE SCREW		
381	2A		N09-2990-08	HEAD SCREW		
382	1A,2C		N19-1031-08	FLAT WASHER /1.6X3.5X0.5		
383	1A		N19-1242-08	FLAT WASHER /2.1X5.0X0.5		
384	2C		N19-1321-08	FLAT WASHER /2.6X6.0X0.25		
385	1B,2B		N19-1322-08	FLAT WASHER /2.1X4.0X0.25		
386	2C		N19-1326-08	FLAT WASHER /2.3X5.0X0.25		
387	2A		N19-1328-08	FLAT WASHER /3.4X6.0X0.5		
388	2A		N19-1341-08	FLAT WASHER /2.1X5.0X0.5		
389	2A	*	N19-1368-08	FLAT WASHER /2.43X5.0X0.5		
390	1B		N19-1344-08	FLAT WASHER /1.5X5.0X0.13		
391	1A		N29-0206-04	E RING /2.0		
392	1B,2C		N30-2604-46	PAN HEAD SCR M2.6X4		
395	1A,2A		S74-0011-08	SWITCH OPEN/CLOSE		
396	1B,1C		S74-0016-08	LEAD		
BA	2C	*	D16-0389-08	ASSIST BELT		
BL	1A		D16-0340-08	LOADING BELT		
BM	2C		D16-0346-08	MAIN BELT		
PF	2A		D14-0341-08	PINCH ROLLER ASSY		
PR	2A		D14-0340-08	PINCH ROLLER ASSY		
PHA	1C		T95-0125-08	PHOTO INTERRUPTER		
PHB	1C		T95-0125-08	PHOTO INTERRUPTER		
PHS	1C		T95-0125-08	PHOTO INTERRUPTER		
PHT	1C		T95-0125-08	PHOTO INTERRUPTER		
AM	1C		T42-0630-08	ASSIST MOTOR ASSY		
MM	1C		T42-0635-08	MAIN MOTOR ASSY		
RM	1C		T42-0629-08	REEL MOTOR ASSY		
PH	2A	*	T31-0073-08	PLAYBACK HEAD		A
RPEH	2A	*	T39-0029-08	REC/PLAY/ERESE HEAD		B

L: Scandinavia
Y: PX (Far East, Hawaii)
Y: AAFES (Europe)
K: USA
T: England
X: Australia
P: Canada
E: Europe
M: Other Areas
R: Mexico
G: Germany

A:A DECK
B:B DECK

⚠ indicates safety critical components.

KX-W8070S

SPECIFICATIONS

Track System	4 track, 2 channel stereo
Recording System	AC bias (Frequency: 105 kHz)
Heads	A DECK
	Playback head ... 1
	B DECK
	Playback/recording heads ... 1
	Erasing head ... 1
Motors	A DECK ... DC motor × 3
	B DECK ... DC motor × 3
Wow and Flutter	±0.13 % (IEC)
	±0.17 % (DIN)
	0.06 % (W.R.M.S)
Fast Winding Time	Approx. 90 seconds (C-60 tape)
Frequency Response	
Normal Tape	30 Hz to 18,000 Hz, ±3 dB
CrO_2 Tape	30 Hz to 19,000 Hz, ±3 dB
Metal Tape	30 Hz to 20,000 Hz, ±3 dB
Signal to Noise Ratio	
Dolby NR OFF	56 dB
(IEC, 250 nWb/m, Metal tape)	
Dolby NR OFF	58 dB (Metal tape)
Dolby B NR ON	67 dB (Metal tape)
Dolby C NR ON	75 dB (Metal tape)
Dolby S NR ON	78 dB (Metal tape)
(3rd, H.D., 3 %, Metal tape)	
Harmonic Distortion	Less than 2.0 %
(at 315 Hz, 3rd H.D., 250 nWb/m, Metal tape)	
Input sensitivity/Impedance	
LINE IN	122.8 mV/10 kΩ
Output Level/Impedance	
LINE OUT	775 mV/1.0 kΩ
Headphones	0.5 mW/32 Ω
[General]	
Power Consumption	30 W
Dimensions	W: 440 mm (17-5/16")
	H: 137 mm (5-3/8")
	D: 271 mm (10-11/16")
Weight (Net)	5.0 kg (11.0 lb)

KENWOOD follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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